

IIIIIIIIII NNN NNN PPPPPPPPPPPP SSSSSSSSSSSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPPPPPPPPPPP SSSSSSSSSSSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN NNN PPPPPP PPPP SSSSSSSSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN NNN PPPPPP PPPP SSSSSSSSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN NNN PPPPPP PPPP SSSSSSSSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN NNN PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN NNN PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN NNN PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN NNN PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP SSS MMM MMM BBBB BBBB BBBB
IIIIIIIIII NNN NNN PPP SSS MMM BBBB BBBB BBBB

FILEID**INPSMB

K 5

IIIIII NN NN PBBBBBPPP SSSSSSSS MM MM BBBB BBBB
IIIIII NN NN PBBBBBPPP SSSSSSSS MM MM BBBB BBBB
II NN NN PP PP SS MBBBBB MBBBBB BB BB
II NN NN PP PP SS MBBBBB MBBBBB BB BB
NNNN NN NN PP PP SS MM MM BB BB
NNNN NN NN PP PP SS MM MM BB BB
II NN NN PBBBBBPPP SSSSSS MM MM BBBB BBBB
II NN NN PBBBBBPPP SSSSSS MM MM BBBB BBBB
NN NNNN PP SS MM MM BB BB
NN NNNN PP SS MM MM BB BB
NN NN PP SS MM MM BB BB
NN NN PP SS MM MM BB BB
IIIIII NN NN PP SSSSSSSS MM MM BBBB BBBB
IIIIII NN NN PP SSSSSSSS MM MM BBBB BBBB

....
....
....

LL II SSSSSSSS
LL II SSSSSSSS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LLLLLLLLL LLLL SSSSSSSS
LLLLLLLLL LLLL SSSSSSSS

IV
V

```
1 0001 0 MODULE INPSMB  (XTITLE 'Input symbiont'  
2 0002 0 MAIN = INPSMB  
3 0003 0 IDENT = 'V04-000'  
4 0004 0 ) =  
5 0005 1 BEGIN  
6 0006 1  
7 0007 1 *****  
8 0008 1 *  
9 0009 1 *  
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27 0027 1 *  
28 0028 1 *  
29 0029 1 *****  
30 0030 1  
31 0031 1  
32 0032 1 **  
33 0033 1 FACILITY:  
34 0034 1 Input symbiont.  
35 0035 1  
36 0036 1 ABSTRACT:  
37 0037 1 This is it.  
38 0038 1  
39 0039 1 ENVIRONMENT:  
40 0040 1 VAX/VMS user mode.  
41 0041 1 --  
42 0042 1  
43 0043 1 AUTHOR: M. Jack, CREATION DATE: 30-Apr-1982  
44 0044 1  
45 0045 1 MODIFIED BY:  
46 0046 1  
47 0047 1 V03-003 MLJ0115 Martin L. Jack, 29-Jul-1983 13:14  
48 0048 1 Update for $SNDJBC file interface change.  
49 0049 1  
50 0050 1 V03-002 MLJ0113 Martin L. Jack, 26-May-1983 10:21  
51 0051 1 Complete implementation.  
52 0052 1  
53 0053 1 V03-001 MLJ0112 Martin L. Jack, 29-Apr-1983 0:02  
54 0054 1 Track SUBMIT enhancements and SJL name changes.  
55 0055 1  
56 0056 1 **
```

```
58 0057 1 LIBRARY 'SYSSLIBRARY:LIB';
59 0058 1 LIBRARY 'SYSSLIBRARY:TPAMAC';
60 0059 1 REQUIRE 'SHRLIBS:JBCPRSDEF';
61 0169 1
62 0170 1
63 0171 1 LITERAL
64 0172 1     TRUE=      1,
65 0173 1     FALSE=     0;
66 0174 1
67 0175 1
68 0176 1 STRUCTURE
69 0177 1     BBLOCK[0,P,S,E;N]=
70 0178 1         [N]
71 0179 1         (BBLOCK + 0)<P,S,E>;
72 0180 1
73 0181 1
74 0182 1 PSECT
75 0183 1     CODE=      CODE,
76 0184 1     PLIT=      CODE,
77 0185 1     OWN=       DATA,
78 0186 1     GLOBAL=    DATA;
79 0187 1
80 0188 1
81 0189 1 FORWARD ROUTINE
82 0190 1     INPSMB,
83 0191 1     PROCESSING_LOOP_HANDLER,
84 0192 1     PROCESSING_LOOP,
85 0193 1     GET_RECORD,
86 0194 1     IDENTIFY_COMMAND_Verb,
87 0195 1     GET_LINE_CONTINUATION,
88 0196 1     TIMER_AST:          NOVALUE,
89 0197 1     FILE_ERROR:        NOVALUE,
90 0198 1     MAIN_HANDLER_ACTION,
91 0199 1     MAIN_HANDLER;
92 0200 1
93 0201 1
94 0202 1 EXTERNAL ROUTINE
95 0203 1     CLI$DCL_PARSE: ADDRESSING_MODE(GENERAL),
96 0204 1     CLI$GET_VALUE:  ADDRESSING_MODE(GENERAL),
97 0205 1     CLI$PRESENT:   ADDRESSING_MODE(GENERAL),
98 0206 1     LGI$VALIDATE: ADDRESSING_MODE(GENERAL),
99 0207 1     LIB$FREE1_DD: ADDRESSING_MODE(GENERAL),
100 0208 1     LIB$SIGNAL:    ADDRESSING_MODE(GENERAL),
101 0209 1     LIB$TPARSE:    ADDRESSING_MODE(GENERAL);
102 0210 1
103 0211 1
104 0212 1 EXTERNAL
105 0213 1     LIB$AB_UPCASE: ADDRESSING_MODE(GENERAL),
106 0214 1     INPSMBCLD:      ! Command tables
107 0215 1
108 0216 1
109 0217 1 EXTERNAL LITERAL
110 0218 1     INPSMB$_FACILITY,
111 0219 1     INPSMB$_ENTFIL,
112 0220 1     INPSMB$_INVCONT,
113 0221 1     INPSMB$_INVLOGFIL,
114 0222 1     INPSMB$_INVPASS,
```

```

115 0223 1 INPSMB$_INVUSER,
116 0224 1 INPSMB$_JOBCARD,
117 0225 1 INPSMB$_MISSPASS$,
118 0226 1 INPSMB$_OPENUAF,
119 0227 1 INPSMB$_USERVAL;

120 0228 1
121 0229 1 OWN
122 0230 1 CARD CHANNEL: WORD, Channel to card reader
123 0231 1 INPUT_FAB: $FAB_DECL, FAB for input
124 0232 1 INPUT_RAB: $RAB_DECL, RAB for input
125 0233 1 INPUT_NAM: $NAM_DECL, NAM block for input
126 0234 1 INPUT_RSA: VECTOR[NAMSC_MAXRSS,BYTE], ! Resultant string for input
127 0235 1 INPUT_UBF: VECTOR[160,BYTE], Record buffers
128 0236 1 OUTPUT_FAB: $FAB_DECL, FAB for output
129 0237 1 OUTPUT_RAB: $RAB_DECL, RAB for output
130 0238 1 OUTPUT_NAM: $NAM_DECL, NAM block for output
131 0239 1 OUTPUT_XAB: $XABPRO_DECL, Protection XAB for output
132 0240 1 OUTPUT_RSA: VECTOR[NAMSC_MAXRSS,BYTE], ! Resultant string for output
133 0241 1 JOB_LENGTH, Length of JOB command
134 0242 1 JOB_BUFFER: VECTOR[80,BYTE], JOB command buffer
135 0243 1 PUTMSG_ACTION_ROUTINE, Action routine for OPCOM or 0
136 0244 1 FLAGS: BBLOCK[4], General flags
137 0245 1 INPUT_COMPLETIONS, Cards since timer expired
138 0246 1 CARD_IOSB_A: VECTOR[4,WORD], First card IOSB
139 0247 1 CARD_IOSB_B: VECTOR[4,WORD], Second card IOSB
140 0248 1 VALUE_DESC: BBLOCK[DSCSC_D_BLN], Qualifier value
141 0249 1 LOG_FILE_DESC: BBLOCK[DSCSC_D_BLN], /LOG FILE descriptor
142 0250 1 NAME_DESC: BBLOCK[DSCSC_D_BLN], /NAME descriptor
143 0251 1 USERNAME_DESC: BBLOCK[DSCSC_D_BLN], Username descriptor
144 0252 1 PASSWORD_DESC: BBLOCK[DSCSC_D_BLN], Password descriptor
145 0253 1 CURRENT_COMMAND: Current command

146 0254 1
147 0255 1
148 0256 1
149 0257 1 LITERAL
150 0258 1 K_NONE= 0, ! No significant command
151 0259 1 K_JOB= 1, JOB command
152 0260 1 K_EOJ= 3, EOJ command
153 0261 1 K_PASSWORD= 5; ! PASSWORD command

154 0262 1
155 0263 1
156 0264 1 LITERAL
157 0265 1 K_EFN_A= 1, ! EFN for first buffer
158 0266 1 K_EFN_B= 2; ! EFN for second buffer

159 0267 1
160 0268 1
161 0269 1 MACRO
162 0270 1 V_NO_LOG_FILE= 0,0,1,0 %, ! /NOLOG specified
163 0271 1 V_SECOND_BUFFER= 0,1,1,0 %, Second buffer has the read
164 0272 1 V_TRAILING_BLANKS= 0,2,1,0 %, Leave trailing blanks
165 0273 1
166 0274 1
167 0275 1 BIND
168 0276 1 PERIODIC_INTERVAL = UPLIT(-150000000, -1); ! 15 seconds
169 0277 1
170 0278 1
171 0279 1 FORWARD

```

```
: 172      0280 1      DOLLAR_STATES:      VECTOR[0],  
: 173      0281 1      DOLLAR_KEYS:      VECTOR[0],  
: 174      0282 1      JOB_STATES:      VECTOR[0],  
: 175      0283 1      JOB_KEYS:      VECTOR[0],  
: 176      0284 1      EOJ_STATES:      VECTOR[0],  
: 177      0285 1      EOJ_KEYS:      VECTOR[0],  
: 178      0286 1      PASSWORD_STATES:  VECTOR[0],  
: 179      0287 1      PASSWORD_KEYS:  VECTOR[0];  
: 180  
: 181  
: 182      0290 1      MACRO  
: 183      M 0291 1      SD[A]=  
: 184          0292 1      BIND %NAME('D_', A) = $DESCRIPTOR(A) %;  
: 185          0293 1  
: 186          0294 1  
: 187      P 0295 1      SD(  
: 188          P 0296 1      'P1'  
: 189          P 0297 1      'AFTER'  
: 190          P 0298 1      'CHARACTERISTICS',  
: 191          P 0299 1      'CLI'  
: 192          P 0300 1      'CPUTIME',  
: 193          P 0301 1      'DELETE',  
: 194          P 0302 1      'HOLD',  
: 195          P 0303 1      'KEEP',  
: 196          P 0304 1      'LOG FILE',  
: 197          P 0305 1      'NAME',  
: 198          P 0306 1      'NOTIFY',  
: 199          P 0307 1      'PARAMETERS',  
: 200          P 0308 1      'PRINTER',  
: 201          P 0309 1      'PRIORITY',  
: 202          P 0310 1      'QUEUE',  
: 203          P 0311 1      'RESTART',  
: 204          P 0312 1      'TRAILING_BLANKS',  
: 205          P 0313 1      'WSDEFAULT',  
: 206          P 0314 1      'WSEXTENT',  
: 207          P 0315 1      'WSQUOTA');  
: 208          P 0316 1  
: 209          P 0317 1  
: 210          P 0318 1      BUILTIN  
: 211          P 0319 1      MOVTC,  
: 212          P 0320 1      TESTBITCC;
```

```
214      0321 1 ROUTINE INPSMB=
215      0322 1
216      0323 1 ++
217      0324 1
218      0325 1 FUNCTIONAL DESCRIPTION:
219      0326 1 This routine is the main entry point for the input symbiont.
220      0327 1
221      0328 1 INPUT PARAMETERS:
222      0329 1 Standard activation parameters (not used).
223      0330 1
224      0331 1 IMPLICIT INPUTS:
225      0332 1 NONE
226      0333 1
227      0334 1 OUTPUT PARAMETERS:
228      0335 1 NONE
229      0336 1
230      0337 1 IMPLICIT OUTPUTS:
231      0338 1 NONE
232      0339 1
233      0340 1 ROUTINE VALUE:
234      0341 1 Completion status.
235      0342 1
236      0343 1 SIDE EFFECTS:
237      0344 1 NONE
238      0345 1
239      0346 1 --
240      0347 1
241      0348 2 BEGIN
242      0349 2 LOCAL
243      0350 2 DEVCLASS,
244      0351 2 RSA_DESC:
245      0352 2 DVI_DESC:
246      0353 2 GETDVI_LIST:
247      0354 2 IOSB:
248      0355 2 STATUS_1,
249      0356 2 STATUS_2,
250      0357 2 STATUS_3;
251      0358 2 BIND
252      0359 2 DEVICE_NAME = $DESCRIPTOR('SYSS$INPUT:'): BBLOCK;
253      0360 2 BUILTIN
254      0361 2 FP:
255      0362 2
256      0363 2
257      0364 2 | Establish the condition handler.
258      0365 2
259      0366 2 .FP = MAIN_HANDLER;
260      0367 2
261      0368 2
262      0369 2 | Initialize RMS structures for the input stream.
263      0370 2
264      P 0371 2 $FAB_INIT(FAB=INPUT_FAB,
265      P 0372 2   FAC=GET,
266      P 0373 2   FNA=UPLÍT BYTE('SYSS$INPUT:'),
267      P 0374 2   FNS=%CHARCOUNT('SYSS$INPUT:'),
268      P 0375 2   FOP=S00,
269      P 0376 2   NAM=INPUT_NAM);
270      P 0377 2 $RAB_INIT(RAB=INPUT_RAB,
```

```
: 271      P 0378 2      FAB=INPUT_FAB,
272      P 0379 2      ROP=RAH,
273      P 0380 2      UBF=INPUT_UBF,
274      P 0381 2      USZ=80);
275      P 0382 2      $NAM_INIT(NAM=INPUT_NAM,
276      P 0383 2      ESA=INPUT_RSA,
277      P 0384 2      ESS=NAMSC_MAXRSS,
278      P 0385 2      RSA=INPUT_RSA,
279      P 0386 2      RSS=NAMSC_MAXRSS);

280      0387 2
281      0388 2
282      0389 2      ! Get the physical device name of the input device.
283      0390 2
284      0391 2      $PARSE(FAB=INPUT_FAB);
285      0392 2      DVI_DESC[0] = CH$RCHAR(INPUT_NAM[NAMST_DVI]);
286      0393 2      DVI_DESC[1] = INPUT_NAM[NAMST_DVI]+1;
287      0394 2      RSA_DESC[0] = 0;
288      0395 2      RSA_DESC[1] = INPUT_RSA;

289      0396 2
290      0397 2
291      0398 2      ! Execute a $GETDVI on the physical device.
292      0399 2
293      0400 2      GETDVI_LIST[0,0,16,0] = 4;
294      0401 2      GETDVI_LIST[2,0,16,0] = DVIS_DEVCLASS;
295      0402 2      GETDVI_LIST[4,0,32,0] = DEVCLASS;
296      0403 2      GETDVI_LIST[8,0,32,0] = 0;
297      0404 2      GETDVI_LIST[12,0,16,0] = NAMSC_MAXRSS;
298      0405 2      GETDVI_LIST[14,0,16,0] = DVIS_DEVNAM;
299      0406 2      GETDVI_LIST[16,0,32,0] = INPUT_RSA;
300      0407 2      GETDVI_LIST[20,0,32,0] = RSA_DESC;
301      0408 2      GETDVI_LIST[24,0,32,0] = 0;
302      P 0409 2      STATUS_1 = $GETDVI(
303      P 0410 2          IOSB=IOSB,
304      P 0411 2          DEVNAM=DVI_DESC,
305      P 0412 2          ITMLST=GETDVI_LIST);
306      0413 2      IF NOT .STATUS_1 THEN RETURN .STATUS_1;
307      0414 2
308      0415 2
309      0416 2      ! Open the input stream.
310      0417 2
311      0418 2      IF .DEVCLASS EQ$ _CARD
312      0419 2      THEN
313      0420 3      BEGIN
314      0421 3
315      0422 3      ! Set up to issue signalled messages to the card operator.
316      0423 3
317      0424 3      PUTMSG_ACTION_ROUTINE = MAIN_HANDLER_ACTION;
318      0425 3
319      0426 3
320      0427 3      ! Open the card reader.
321      0428 3
322      0429 3      STATUS_2 = $ASSIGN(DEVNAM=DEVICE_NAME, CHAN=CARD_CHANNEL);
323      0430 3      IF NOT .STATUS_2
324      0431 3      THEN
325      0432 3          SIGNAL(
326      0433 3              INPSMBSFacility^16 + SHRS_OPENIN + STSSK_SEVERE,
327      0434 3              1, RSA_DESC,
```

```
: 328      0435 3   .STATUS_2);  
: 329      0436 3   INPUT_NAM[NAM$B_RSL] = .RSA_DESC[0];  
: 330      0437 3  
: 331      0438 3  
: 332      0439 3  
: 333      0440 3  
: 334      0441 3  
: 335      0442 3  
: 336      0443 3  
: 337      0444 3  
: 338      0445 3  
: 339      P 0446 3   ! Set up the periodic timer.  
: 340      P 0447 3  
: 341      P 0448 3  
: 342      P 0449 3  
: 343      P 0450 3  
: 344      P 0451 3  
: 345      0452 3  
: 346      0453 3  
: 347      0454 3  
: 348      0455 3  
: 349      0456 3  
: 350      0457 3  
: 351      0458 3  
: 352      0459 3  
: 353      ELSE 2  
: 354      0460 2  
: 355      0461 3  
: 356      0462 3  
: 357      0463 3  
: 358      0464 3  
: 359      0465 4  
: 360      0466 3  
: 361      0467 3  
: 362      0468 3  
: 363      0469 3  
: 364      0470 3  
: 365      0471 3  
: 366      0472 3  
: 367      0473 4  
: 368      0474 3  
: 369      0475 3  
: 370      0476 3  
: 371      0477 3  
: 372      0478 3  
: 373      0479 2  
: 374      0480 2  
: 375      0481 2  
: 376      0482 2  
: 377      0483 2  
: 378      0484 2  
: 379      0485 2  
: 380      0486 2  
: 381      0487 2  
: 382      0488 2  
: 383      0489 2  
: 384      0490 2  
: 385      0491 2  
: 386      .STATUS_3);  
: 387      $SETIMR(DAYTIM=PERIODIC_INTERVAL, ASTADR=TIMER_AST);  
: 388      ! Start a read in the first buffer.  
: 389      STATUS_3 = $QIO(  
: 390      EFN=K EFN_A,  
: 391      FUNC=IOS READLBLK,  
: 392      CHAN=.CARD CHANNEL,  
: 393      IOSB=CARD IOSB_A,  
: 394      P1=INPUT_DBF,  
: 395      P2=80);  
: 396      IF NOT .STATUS_3  
: 397      THEN  
: 398      FILE_ERROR(  
: 399      INPSMBS FACILITY^16 + SHR$READERR + STSSK_SEVERE,  
: 400      INPUT FAB,  
: 401      .STATUS_3);  
: 402      END  
: 403      BEGIN  
: 404      ! Access the file with RMS.  
: 405      IF NOT $OPEN(FAB=INPUT_FAB)  
: 406      THEN  
: 407      FILE_ERROR(  
: 408      INPSMBS FACILITY^16 + SHR$OPENIN + STSSK_SEVERE,  
: 409      INPUT FAB,  
: 410      .INPUT_FAB[FAB$L_STS], .INPUT_FAB[FAB$L_STV]);  
: 411      IF NOT $CONNECT(RAB=INPUT_RAB)  
: 412      THEN  
: 413      FILE_ERROR(  
: 414      INPSMBS FACILITY^16 + SHR$OPENIN + STSSK_SEVERE,  
: 415      INPUT FAB,  
: 416      .INPUT_RAB[RAB$L_STS], .INPUT_RAB[RAB$L_STV]);  
: 417      END;  
: 418      ! Initialize descriptors for dynamic strings.  
: 419      VALUE_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;  
: 420      VALUE_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;  
: 421      VALUE_DESC[DSC$W_LENGTH] = 0;  
: 422      VALUE_DESC[DSC$A_POINTER] = 0;  
: 423      LOG_FILE_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;  
: 424      LOG_FILE_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;  
: 425      LOG_FILE_DESC[DSC$W_LENGTH] = 0;
```

```

385    0492 2 LOG_FILE_DESC[DSCSA_POINTER] = 0;
386    0493 2
387    C494 2 NAME_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
388    0495 2 NAME_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
389    0496 2 NAME_DESC[DSC$W_LENGTH] = 0;
390    0497 2 NAME_DESC[DSCSA_POINTER] = 0;
391    0498 2
392    0499 2 USERNAME_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
393    0500 2 USERNAME_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
394    0501 2 USERNAME_DESC[DSC$W_LENGTH] = 0;
395    0502 2 USERNAME_DESC[DSCSA_POINTER] = 0;
396    0503 2
397    0504 2 PASSWORD_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
398    0505 2 PASSWORD_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
399    0506 2 PASSWORD_DESC[DSC$W_LENGTH] = 0;
400    0507 2 PASSWORD_DESC[DSCSA_POINTER] = 0;
401    0508 2
402    0509 2
403    0510 2 ! Loop to process all jobs in the input stream.
404    0511 2
405    0512 2 UNTIL PROCESSING_LOOP() DO 0;
406    0513 2
407    0514 2
408    0515 2 ! Close the input stream.
409    0516 2
410    0517 2 IF .CARD_CHANNEL EQL 0
411    0518 2 THEN
412    0519 3   IF NOT $CLOSE(FAB=INPUT_FAB)
413    0520 2     THEN
414    0521 2       FILE_ERROR(
415    0522 2         INPSMBS FACILITY^16 + SHRS_CLOSEIN + STSSK_SEVERE,
416    0523 2         INPUT_FAB,
417    0524 2         .INPUT_FAB[FAB$L_STS], .INPUT_FAB[FAB$L_STV]);
418    0525 2
419    0526 2
420    0527 2 ! Exit the symbiont.
421    0528 2
422    0529 2 SSS_NORMAL
423    0530 1 END;

```

: INFO#250 L1:0418
: Referenced LOCAL symbol DEVCLASS is probably not initialized

```
.TITLE INPSMB Input symbiont
.IDENT \V04-000\
```

```
.PSECT DATA,NOEXE,2
```

00000 CARD_CHANNEL:		
.BLKB	2	
00002	BLKB	2
00004 INPUT_FAB:		
.BLKB	80	
00054 INPUT_RAB:		
.BLKB	68	
00098 INPUT_NAM:		
.BLKB	96	

000F8 INPUT_RSA:
001F7 .BLKB 255
001F8 INPUT_UBF:
00298 OUTPUT_FAB:
002E8 OUTPUT_RAB:
0032C OUTPUT_NAM:
0038C OUTPUT_XAB:
003E4 OUTPUT_RSA:
004E3 .BLKB 1
004E4 JOB_LENGTH:
004E8 JOB_BUFFER:
00538 PUTMSG_ACTION_ROUTINE:
0053C FLAGS: .BLKB 4
00540 INPUT_COMPLETIONS:
00544 CARD_IOSB_A:
0054C CARD_IOSB_B:
00554 VALUE_DESC:
0055C LOG_FILE_DESC:
00564 NAME_DESC:
0056C USERNAME_DESC:
00574 PASSWORD_DESC:
0057C CURRENT_COMMAND:
.BLKB 4

.PSECT CODE,NOWRT,2

FFFFFFFFFF	F70F2E80	00000 P.AAA:	.LONG -150000000, -1
	31 50	00008 P.AAC:	.ASCII \P1\
	00000002	0000A P.AAB:	.BLKB 2
	00000000	00010 P.AAC	.LONG 2
52 45 54 46 41	00014 P.AAE:	.ADDRESS P.AAC	
	00019 P.AAE:	.ASCII \AFTER\	
	00000005	0001C P.AAD:	.BLKB 3
	00000000	00020 P.AAE	.LONG 5
53 43 49 54 53 49 52 45 54 43 41 52 41 48 43	00024 P.AAG:	.ADDRESS P.AAE	
	00033 P.AAG:	.ASCII \CHARACTERISTICS\	
	0000000F	00034 P.AAF:	.BLKB 1
	00000000	00038 P.AAF:	.LONG 15
			.ADDRESS P.AAG

		49 4C 43 0003C P.AAI:	.ASCII \CLI\
		00000003 0003F	.BLKB 1
		00000000 00040 P.AAH:	.LONG 3
		00000000 00044 P.AAK:	.ADDRESS P.AAI
45	4D 49 54 55 50 43	00048 P.AAK:	.ASCII \CPUTIME\
		00000007 0004F	.BLKB 1
		00000000 00050 P.AAJ:	.LONG 7
		00000000 00054 P.AAM:	.ADDRESS P.AAK
45	54 45 4C 45 44	00058 P.AAM:	.ASCII \DELETE\
		00000006 0005E	.BLKB 2
		00000000 00060 P.AAL:	.LONG 6
		00000004 00064 P.AAO:	.ADDRESS P.AAM
44	4C 4F 48 00068 P.AAO:	.ASCII \HOLD\	
		00000004 0006C P.AAN:	.LONG 4
		00000000 00070 P.AAQ:	.ADDRESS P.AAO
50	45 45 4B 00074 P.AAQ:	.ASCII \KEEP\	
		00000004 00078 P.AAP:	.LONG 4
		00000000 0007C P.AAQ:	.ADDRESS P.AAQ
45	4C 49 46 5F 47 4F 4C 00080 P.AAS:	.ASCII \LOG_FILE\	
		00000008 00088 P.AAR:	.LONG 8
		00000000 0008C P.AAU:	.ADDRESS P.AAS
45	4D 41 4E 00090 P.AAU:	.ASCII \NAME\	
		00000004 00094 P.AAT:	.LONG 4
		00000000 00098 P.AAW:	.ADDRESS P.AAU
59	46 49 54 4F 4E 0009C P.AAW:	.ASCII \NOTIFY\	
		000A2	.BLKB 2
		000A4 P.AAV:	.LONG 6
		00000006 000A8 P.AAY:	.ADDRESS P.AAW
53	52 45 54 45 4D 41 52 41 50 000AC P.AAY:	.ASCII \PARAMETERS\	
		000B6	.BLKB 2
		000BB P.AAX:	.LONG 10
		000BC P.ABA:	.ADDRESS P.AAY
52	45 54 4E 49 52 50 000C0 P.ABA:	.ASCII \PRINTER\	
		000C7	.BLKB 1
		000C8 P.AAZ:	.LONG 7
		000CC P.AAA:	.ADDRESS P.ABA
59	54 49 52 4F 49 52 50 000D0 P.ABC:	.ASCII \PRIORITY\	
		000D8 P.ABB:	.LONG 8
		000DC P.ABD:	.ADDRESS P.ABC
45	55 45 55 51 000E0 P.ABE:	.ASCII \QUEUE\	
		000E5	.BLKB 3
		000E8 P.ABD:	.LONG 5
		000EC P.ABE:	.ADDRESS P.ABE
54	52 41 54 53 45 52 000F0 P.ABG:	.ASCII \RESTART\	
		000F7	.BLKB 1
		000F8 P.ABF:	.LONG 7
		000FC P.ABG:	.ADDRESS P.ABG
53	4B 4E 41 4C 42 5F 47 4E 49 4C 49 41 52 54 00100 P.ABI:	.ASCII \TRAILING_BLANKS\	
		0010F	.BLKB 1
		00110 P.ABH:	.LONG 15
		00114 P.ABK:	.ADDRESS P.ABI
54	4C 55 41 46 45 44 53 57 00118 P.ABK:	.ASCII \WSDEFAULT\	
		00121	.BLKB 3
		00124 P.ABJ:	.LONG 9
		00000009 00128 P.ABM:	.ADDRESS P.ABK
54	4E 45 54 58 45 53 57 0012C P.ABM:	.ASCII \WSEXTENT\	
		00000008 00134 P.ABL:	.LONG 8

41 54 4F 55 51 53 57	00000000' 00138	P.ABO: .ADDRESS P.ABM
	0013C	.ASCII \WSQUOTA\
	00143	.BLKB 1
	00000007	P.ABN: .LONG 7
3A 54 55 50 4E 49 24	53 59 53	00144 P.ABQ: .ADDRESS P.ABO
	00000000'	00148 .ASCII \SYSSINPUT:\
	00156	.BLKB 2
	0000000A	00158 P.ABP: .LONG 10
	00000000'	0015C P.ABR: .ADDRESS P.ABQ
3A 54 55 50 4E 49 24	53 59 53	00160 P.ABR: .ASCII \SYSSINPUT:\

PERIODIC_INTERVAL= P.AAA
 D_P1= P.AAB
 D_AFTER= P.AAD
 D_CHARACTERISTICS= P.AAF
 D_CLI= P.AAH
 D_CPUTIME= P.AAJ
 D_DELETE= P.AAL
 D_HOLD= P.AAN
 D_KEEP= P.AAP
 D_LOG_FILE= P.AAR
 D_NAME= P.AAT
 D_NOTIFY= P.AAV
 D_PARAMETERS= P.AAX
 D_PRINTER= P.AAZ
 D_PRIORITY= P.ABB
 D_QUEUE= P.ABD
 D_RESTART= P.ABF
 D_TRAILING_BLANKS= P.ABH
 D_WSDEFAULT= P.ABJ
 D_WSEXTENT= P.ABL
 D_WSQUOTA= P.ABN
 DEVICE_NAME= P.ABP
 \$RMS_PTR= INPUT_FAB
 \$RMS_PTR= INPUT_RAB
 \$RMS_PTR= INPUT_NAM
 .EXTRN CLI\$DCL_PARSE, CLI\$GET_VALUE
 .EXTRN CLI\$PRESENT, LGI\$VALIDATE
 .EXTRN LIB\$SFREE1_DD, LIB\$SIGNAL
 .EXTRN LIB\$TPARSE, LIB\$AB_UPCASE
 .EXTRN INPSMBCLD, INPSMBS\$FACILITY
 .EXTRN INPSMBS\$ENTFIL, INPSMBS\$_INVCONT
 .EXTRN INPSMBS\$_INVLOGFIL
 .EXTRN INPSMBS\$_INVPASS
 .EXTRN INPSMBS\$_INVUSER
 .EXTRN INPSMBS\$_JOBCARD
 .EXTRN INPSMBS\$_MISSPASS
 .EXTRN INPSMBS\$_OPENUAF
 .EXTRN INPSMBS\$_USERVAL
 .EXTRN SYSSPARSE, SYSSGETDVIW
 .EXTRN SYSSASSIGN, SYSSSETIMR
 .EXTRN SYSSQIO, SYSS\$OPEN
 .EXTRN SYSSCONNECT, SYSSCLOSE

57	0000V	CF 00FC	00000 INPSMB: .WORD	Save R2,R3,R4,R5,R6,R7
56	0000'	CF 9E	00002 MOVAB	FILE_ERROR, R7
		00007	MOVAB	\$RMS_PTR, R6

0321

0050	8F	00	5E 6D 6E	0000V	38 C2 0000C CF 9E 0000F 00 2C 00014 66 0001B	SUBL2 MOVAB MOVC5	#56, SP MAIN_HANDLER, (FP) #0, TSP), #0, #80, SRMS_PTR	0366 0376
04	A6	66 40	5003 A6		8F B0 0001C 8F 9A 00021 02 90 00026	MOVW MOVZBL	#20483, SRMS_PTR #64, SRMS_PTR+4	...
16	A6	16 A6			02 90 0002A	MOVW	#2, SRMS_PTR+22	...
1F	A6	28 A6	0094 BF		C6 9E 0002E AF 9E 00034	MOVW MOVAB MOVAB	#2, SRMS_PTR+31 INPUT_NAM, SRMS_PTR+40 P_ABR, SRMS_PTR+44	...
2C	A6	34 A6			0A 90 00039	MOVW MOVAB	#10, SRMS_PTR+52 #0, (SP), -#0, #68, SRMS_PTR	0381
0044	8F	00	6E	50	A6 00044	MOVW MOVZWL	#17409, SRMS_PTR #512, SRMS_PTR+4	...
50	A6	54 A6	4401 0200		8F B0 00046 8F 3C 0004C	MOVZBW	#80, SRMS_PTR+32	...
70	A6	74 A6	50 01F4		8F 9B 00052 C6 9E 00057	MOVAB	INPUT_UBF, SRMS_PTR+36	...
0060	8F	00	008C 6E	0094	66 9E 0005D 00 2C 00062	MOVAB MOVCS	INPUT_FAB, SRMS_PTR+60 #0, (SP), #0, #96, SRMS_PTR	0386
0094	C6	0096 C6	6002		C6 00069	MOVW MNEG_B	#24578, SRMS_PTR #1, SRMS_PTR+2	21
0098	C6	0098 C6	00F4		8F B0 0006C 01 8E 00073	MOVAB	INPUT_RSA, SRMS_PTR+4	...
009E	C6	00A0 C6	00F4		C6 9E 00078 01 8E 0007F	MNEG_B	#1, SRMS_PTR+10	...
00A0	C6	00000000G 00			C6 9E 00084	MOVAB	INPUT_RSA, SRMS_PTR+12	0391
28	AE	00A8			56 DD 0008B	PUSHL	R6	0392
2C	AE	00A9			01 FB 0008D	CALLS	#1, SYSSPARSE	0393
30					C6 9A 00094	MOVZBL	INPUT_NAM+20, DVI_DESC	0394
34	AE	00F4			C6 9E 0009A	MOVAB	INPUT_NAM+21, DVI_DESC+4	0395
0C	AE	00040004			30 AE D4 000A0	CLRL	RSA_DESC	0396
10	AE				C6 9E 000A3	MOVAB	INPUT_RSA, RSA_DESC+4	0397
14					8F D0 000A9	MOVL	#262148, GETDVI_LIST	0400
18	AE	002000FF			10 AE D4 000B1	MOVAB	DEVCLASS, GETDVI_LIST+4	0402
1C	AE	00F4			14 AE D4 000B5	CLRL	GETDVI_LIST+8	0403
20	AE	30			8F D0 000B8	MOVL	#2097407, GETDVI_LIST+12	0404
		24			C6 9E 000C0	MOVAB	INPUT_RSA, GETDVI_LIST+16	0406
					AE 9E 000C6	MOVAB	RSA_DESC, GETDVI_LIST+20	0407
					D4 000CB	CLRL	GETDVI_LIST+24	0408
					7E 7C 000CE	CLRQ	-(SP)	0412
					7E D4 000D0	CLRL	-(SP)	
					10 AE 9F 000D2	PUSHAB	IOSB	
					1C AE 9F 000D5	PUSHAB	GETDVI_LIST	
					3C AE 9F 000D8	PUSHAB	DVI_DESC	
00000000G	00	00000000G 01			7E 7C 000DB	CLRQ	-(SP)	
					08 FB 000DD	CALLS	#8, SYSSGETDVIW	0413
					50 E8 000E4	BLBS	STATUS_1, 1\$	
					04 00 000E7	RET		
00000041	8F		6E	000E8	1\$: 12 000EF	CMPL	DEVCLASS, #65	0418
0534	C6	0000V	CF		9E 000F1	BNEQ	3\$	0424
			7E		7C 000F8	MOVAB	MAIN_HANDLER_ACTION, PUTMSG_ACTION_ROUTINE	0429
					A6 9F 000FA	CLRQ	-(SP)	
00000000G	00	FEED	CF		9F 000FD	PUSHAB	CARD CHANNEL	0430
			04		FB 00101	PUSHAB	DEVICE_NAME	0435
			50		E8 00108	CALLS	#4, SYSSASSIGN	0432
			50		DD 0010B	BLBS	STATUS_2, 2\$	
			34		AE 9F 0010D	PUSHL	STATUS_2	
						PUSHAB	RSA_DESC	

INPSMB
V04-000

Input symbiont

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00000000G	00	00000000*	01	DD 00110	PUSHL	#1
0097	00		8F	DD 00112	PUSHL	#<<<INPSMBS FACILITY@16>+4248>+4>
	C6	30	04	FB 00118	CALLS	#4, LIB\$SIGNAL
			AE	90 0011F	MOVB	RS\$ DESC, INPUT_NAM+3
			7E	D4 00125	CLRL	-(SP)
		0000V	CF	9F 00127	PUSHAB	TIMER AST
		FD67	CF	9F 0012B	PUSHAB	PERIODIC_INTERVAL
			7E	D4 0012F	CLRL	-(SP)
00000000G	00		04	FB 00131	CALLS	#4, SYSSSETIMR
			7E	7C 00138	CLRQ	-(SP)
	7E	50	7E	7C 0013A	CLRQ	-(SP)
		01F4	8F	9A 0013C	MOVZBL	#80, -(SP)
			C6	9F 00140	PUSHAB	INPUT_UBF
			7E	7C 00144	CLRQ	-(SP)
		0540	C6	9F 00146	PUSHAB	CARD_IOSB_A
	7E		21	DD 0014A	PUSHL	#33
		FC	A6	3C 0014C	MOVZWL	CARD_CHANNEL, -(SP)
00000000G	00		01	DD 00150	PUSHL	#1
	46		0C	FB 00152	CALLS	#12, SYSSQIO
			50	E8 00159	BLBS	STATUS_3, 5\$
			50	DD 0015C	PUSHL	STATUS_3
			56	DD 0015E	PUSHL	R6
	67	00000000*	8F	DD 00160	PUSHL	#<<<INPSMBS FACILITY@16>+4272>+4>
			03	FB 00166	CALLS	#3, FILE_ERROR
			37	11 00169	BRB	5\$
			56	DD 0016B	PUSHL	R6
00000000G	00		01	FB 0016D	CALLS	#1, SYSSOPEN
	0F		50	E8 00174	BLBS	R0, 4\$
	7E	08	A6	7D 00177	MOVQ	INPUT_FAB+8, -(SP)
			56	DD 0017B	PUSHL	R6
	67	00000000*	8F	DD 0017D	PUSHL	#<<<INPSMBS FACILITY@16>+4248>+4>
			04	FB 00183	CALLS	#4, FILE_ERROR
		50	A6	9F 00186	PUSHAB	INPUT_RAB
00000000G	00		01	FB 00189	CALLS	#1, SYSSCONNECT
	0F		50	E8 00190	BLBS	R0, 5\$
	7E	58	A6	7D 00193	MOVQ	INPUT_RAB+8, -(SP)
			56	DD 00197	PUSHL	R6
		00000000*	8F	DD 00199	PUSHL	#<<<INPSMBS FACILITY@16>+4248>+4>
	67		04	FB 0019F	CALLS	#4, FILE_ERROR
0550	C6	020E0000	8F	DO 001A2	MOVL	#34471936, VALUE_DESC
		0554	C6	D4 001AB	CLRL	VALUE_DESC+4
0558	C6	020E0000	8F	DO 001AF	MOVL	#34471936, LOG_FILE_DESC
		055C	C6	D4 001B8	CLRL	LOG_FILE_DESC+4
0560	C6	020E0000	8F	DO 001BC	MOVL	#34471936, NAME_DESC
		0564	C6	D4 001C5	CLRL	NAME_DESC+4
0568	C6	020E0000	8F	DO 001C9	MOVL	#34471936, USERNAME_DESC
		056C	C6	D4 001D2	CLRL	USERNAME_DESC+4
0570	C6	020E0000	8F	DO 001D6	MOVL	#34471936, PASSWORD_DESC
		0574	C6	D4 001DF	CLRL	PASSWORD_DESC+4
0000V	CF		00	FB 001E3	CALLS	#0, PROCESSING_LOOP
	F8		50	E9 001E8	BLBC	R0, 6\$
		FC	A6	B5 001EB	TSTW	CARD_CHANNEL
			1B	12 001EE	BNEQ	7\$
			56	DD 001F0	PUSHL	R6
00000000G	00		01	FB 001F2	CALLS	#1, SYSSCLOSE
	0F		50	E8 001F9	BLBS	R0, 7\$
	7E	08	A6	7D 001FC	MOVQ	INPUT_FAB+8, -(SP)

INPSMB
V04-000

Input symbiont

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67	00000000*	56 DD 00200	PUSHL R6	: 0521
50		8F DD 00202	PUSHL #<<<INPSMB\$_FACILITY@16>+4176>+4>	: 0522
		04 FB 00208	CALLS #4, FILE_ERROR	
		01 D0 0020B 7\$:	MOVL #1, R0	
		04 0020E	RET	: 0530

; Routine Size: 527 bytes, Routine Base: CODE + 016A

```
: 425      0531 1 ROUTINE PROCESSING_LOOP_HANDLER(SIG,MCH)=
: 426      0532 1
: 427      0533 1 ++
: 428      0534 1
: 429      0535 1 FUNCTIONAL DESCRIPTION:
: 430      0536 1 This is a condition handler for routine PROCESSING_LOOP.
: 431      0537 1
: 432      0538 1 INPUT PARAMETERS:
: 433      0539 1 Standard VMS condition handler parameters.
: 434      0540 1
: 435      0541 1 IMPLICIT INPUTS:
: 436      0542 1 NONE
: 437      0543 1
: 438      0544 1 OUTPUT PARAMETERS:
: 439      0545 1 NONE
: 440      0546 1
: 441      0547 1 IMPLICIT OUTPUTS:
: 442      0548 1 NONE
: 443      0549 1
: 444      0550 1 ROUTINE VALUE:
: 445      0551 1 NONE
: 446      0552 1
: 447      0553 1 SIDE EFFECTS:
: 448      0554 1 NONE
: 449      0555 1
: 450      0556 1 --
: 451      0557 1
: 452      0558 2 BEGIN
: 453      0559 2 MAP
: 454      0560 2     SIG:      REF BBLOCK,    ! Signal parameters
: 455      0561 2     MCH:      REF BBLOCK;   ! Mechanism parameters
: 456      0562 2 LOCAL
: 457      0563 2     COND:     BBLOCK[4];   ! Status value
: 458      0564 2 BUILTIN
: 459      0565 2     AP,
: 460      0566 2     CALLG;
: 461
: 462
: 463      0568 2
: 464      0569 2 ! Get the condition that was signalled.
: 465      0570 2
: 466      0571 2 COND = .SIG[CHF$L_SIG_NAME];
: 467
: 468      0573 2 IF .COND NEQ SSS_UNWIND
: 469      0574 2 THEN
: 470      0575 2     BEGIN
: 471      0576 3
: 472      0577 3     ! Downgrade the severity of any message issued to error.
: 473      0578 3
: 474      0579 3     IF .COND[STSSV_SEVERITY] EQL STSSK_SEVERE
: 475      0580 3     THEN
: 476      0581 3     BBLOCK[SIG[CHF$L_SIG_NAME], STSSV_SEVERITY] = STSSK_ERROR;
: 477      0582 3
: 478      0583 3
: 479      0584 3     ! Call the main handler to issue the message.
: 480      0585 3
: 481      0586 3     CALLG(.AP, MAIN_HANDLER);
```

```

: 482      0588 3
: 483      0589 3
: 484      0590 3
: 485      0591 3
: 486      0592 3
: 487      0593 3
: 488      0594 4
: 489      0595 4
: 490      0596 4
: 491      0597 4
: 492      0598 4
: 493      0599 4
: 494      0600 5
: 495      0601 5
: 496      0602 5
: 497      0603 4
: 498      0604 4
: 499      0605 4
: 500      0606 4
: 501      0607 4
: 502      0608 4
: 503      0609 4
: 504      0610 3
: 505      0611 2
: 506      0612 2
: 507      0613 2
: 508      0614 2 SSS_CONTINUE
: 509      0615 1 END;

        ! If the message is an error status, clean up the current job.
        IF NOT .COND
        THEN
        BEGIN
        ! Close and delete the command procedure file if it is open.
        IF .OUTPUT_FAB[FAB$WIFI] NEQ 0
        THEN
        BEGIN
        OUTPUT_FAB[FAB$V_DLT] = TRUE;
        $CLOSE(FAB=OUTPUT_FAB);
        END;

        ! Unwind to the caller of PROCESSING_LOOP with a false value.
        MCH[CHFSL_MCH_SAVR0] = FALSE;
        $UNWIND();
        END;
END;

```

.EXTRN SYSSUNWIND

0004 00000 PROCESSING_LOOP_HANDLER:									
									.WORD Save R2
									MOVL SIG, R0
									MOVL 4(R0), COND
									CMPL COND, #2336
									BEQL 3S
									CMPZV #0, #3, COND, #4
									BNEQ 1S
									INSV #2, #0, #3, 4(R0)
									CALLG (AP), MAIN_HANDLER
									BLBS COND, 3S
									TSTW OUTPUT_FAB+2
									BEQL 2S
									BISB2 #128, OUTPUT_FAB+5
									PUSHAB OUTPUT_FAB
									CALLS #1, SYS\$CLOSE
									MOVL MCH, R0
									CLRL 12(R0)
									CLRQ -(SP)
									CALLS #2, SYSSUNWIND
									MOVL #1, R0
									RET

; Routine Size: 83 bytes, Routine Base: CODE + 0379

INPSMB
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Input symbiont

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IN
VO

```
511      0616 1 ROUTINE PROCESSING_LOOP=
512      0617 1
513      0618 1 ++
514      0619 1
515      0620 1 FUNCTIONAL DESCRIPTION:
516      0621 1 This routine implements the main control sequencing for the input
517      0622 1 symbiont.
518      0623 1
519      0624 1 INPUT PARAMETERS:
520      0625 1     NONE
521      0626 1
522      0627 1 IMPLICIT INPUTS:
523      0628 1     NONE
524      0629 1
525      0630 1 OUTPUT PARAMETERS:
526      0631 1     NONE
527      0632 1
528      0633 1 IMPLICIT OUTPUTS:
529      0634 1     NONE
530      0635 1
531      0636 1 ROUTINE VALUE:
532      0637 1     NONE
533      0638 1
534      0639 1 SIDE EFFECTS:
535      0640 1     NONE
536      0641 1
537      0642 1 --
538      0643 1
539      0644 2 BEGIN
540      0645 2 PARSE_GLOBAL_REGISTERS;
541      0646 2 LOCAL
542      0647 2     ITEM_BUFFER:    BBLOCK[2048],           | $SNDJBC item buffer
543      0648 2     DATA_BUFFER:   BBLOCK[2048],           | $SNDJBC data buffer
544      0649 2     UAF_BUFFER:    BBLOCK[UAF$C_LENGTH],    | UAF record for user
545      0650 2     UAF_DESC:     VECTOR[2],             | Descriptor for UAF buffer
546      0651 2     DNA_BUFFER:    VECTOR[NAMSC_MAXRSS,BYTE], | Default filename
547      0652 2     DNA_DESC:     VECTOR[2],             | Descriptor for DNA buffer
548      0653 2     IOSB:        VECTOR[4,WORD],          | $SNDJBC status block
549      0654 2     LINE_DESC:    BBLOCK[DSCSC_S_BLN],    | Descriptor for command
550      0655 2     STATUS_1:    STATUS,                | Status return
551      0656 2     STATUS_2:    STATUS,                | Status return
552      0657 2     BUILTIN
553      0658 2     FP;
554      0659 2
555      0660 2
556      0661 2     | Establish the condition handler.
557      0662 2
558      0663 2     .FP = PROCESSING_LOOP_HANDLER;
559      0664 2
560      0665 2
561      0666 2     | Initialize for command parsing utilities.
562      0667 2
563      P 0668 2     PARSE_GLOBAL_INIT(
564      P 0669 2     ICURSOR=    ITEM_BUFFER,
565      P 0670 2     DCURSOR=    DATA_BUFFER,
566      P 0671 2     MESSAGE=    INPSMB$ FACILITY^16 OR SHRS_BADQNAME OR STSSK_SEVERE,
567      0672 2     VALUE_DESC= VALUE_DESC);
```

```
568      0673 2
569      0674 2
570      0675 2 ! Read the input stream searching for a JOB command.
571      0676 2
572      0677 2 UNTIL .CURRENT_COMMAND EQL K_JOB DO
573          0678 3 BEGIN
574              0679 3 IF NOT GET_RECORD() THEN RETURN TRUE;
575              0680 3 CURRENT_COMMAND = IDENTIFY_COMMAND_VÉRB(FALSE, LINE_DESC);
576          0681 2 END;
577
578      0682 2
579      0683 2
580      0684 2 ! Save the JOB command for error messages.
581      0685 2
582      0686 2 JOB_LENGTH = .INPUT_RAB[RAB$W_RSZ];
583      0687 2 CHSMOVE(.JOB_LENGTH, .INPUT_RAB[RAB$L_RBF], JOB_BUFFER);
584
585      0688 2
586      0689 2 ! Parse the JOB command.
587      0690 2
588      0691 2 CURRENT_COMMAND = K_NONE;
589      0692 2 CLI$DCL_PARSE(LINE_DESC, INPSMBCLD, 0, GET_LINE_CONTINUATION);
590
591      0693 2
592      0694 2
593      0695 2 ! Free dynamic strings to ensure that jobs do not interfere with one another.
594      0696 2
595      0697 2
596      0698 2 LIB$SFREE1_DD(VALUE_DESC);
597      0699 2 LIB$SFREE1_DD(LOG_FILE_DESC);
598      0700 2 LIB$SFREE1_DD(NAME_DESC);
599      0701 2 LIB$SFREE1_DD(USERNAME_DESC);
600      0702 2 LIB$SFREE1_DD(PASSWORD_DESC);
601
602      0703 2
603      0704 2 ! Get the parameter, which is the username.
604      0705 2
605      0706 2
606      0707 2 CLI$GET VALUE(D_P1, USERNAME_DESC);
607      0708 2 IF .USERNAME_DESC[DSC$W_LENGTH] GTTU 12
608      0709 2 THEN
609          0710 2     SIGNAL(INPSMB$_INVUSER, 1, USERNAME_DESC);
610
611      0711 2
612      0712 2
613      0713 2 ! Get the /QUEUE qualifier.
614      0714 2
615      0715 2 PARSE_CALL(QUEUE, D_QUEUE, SJCS_QUEUE, $DESCRIPTOR('SYSS$BATCH'));
616      0716 2 Q_MESSAGE = INPSMB$_FACILITY^16 + SHR$_INVQUAVAL + STSS$K_SEVERE;
617
618      0717 2
619      0718 2 ! Get the /AFTER qualifier.
620      0719 2
621      0720 2
622      0721 2 PARSE_CALL(AFTER, D_AFTER);
623
624      0722 2
625      0723 2 ! Get the /CHARACTERISTICS qualifier.
626      0724 2
627      0725 2
628      0726 2 PARSE_CALL(CHARACTERISTICS, D_CHARACTERISTICS);
629      0727 2
630      0728 2 ! Get the /CLI qualifier.
```

```
625      0730 2 !  
626      0731 2 PARSE_CALL(FILENAME, D_CLI, SJCS_CLI, SJCS_NO_CLI);  
627      0732 2  
628      0733 2  
629      0734 2 ! Get the /CPUTIME qualifier.  
630      0735 2  
631      0736 2 PARSE_CALL(CPUTIME, D_CPUTIME, SJCS_CPU_LIMIT, SJCS_NO_CPU_LIMIT);  
632      0737 2  
633      0738 2  
634      0739 2 ! Get the /DELETE qualifier.  
635      0740 2  
636      0741 2 PARSE_CALL(IF_TRUE, D_DELETE, SJCS_DELETE_FILE);  
637      0742 2  
638      0743 2  
639      0744 2 ! Get the /HOLD qualifier.  
640      0745 2  
641      0746 2 PARSE_CALL(IF_TRUE, D_HOLD, SJCS_HOLD);  
642      0747 2  
643      0748 2  
644      0749 2 ! Get the /KEEP qualifier.  
645      0750 2  
646      0751 2 PARSE_CALL(IF_TRUE, D_KEEP, SJCS_NO_LOG_DELETE);  
647      0752 2  
648      0753 2  
649      0754 2 ! Get the /LOGFILE qualifier.  
650      0755 2  
651      0756 2 Q VALUE_DESC = LOGFILE_DESC;  
652      0757 2 FLAGSEV_NO_LOGFILE = PARSE_CALL_VALUE(LOGFILE, D_LOGFILE);  
653      0758 2  
654      0759 2  
655      0760 2 ! Get the /NAME qualifier.  
656      0761 2  
657      0762 2 Q VALUE_DESC = NAME_DESC;  
658      0763 2 PARSE_CALL(NAME, D_NAME);  
659      0764 2 Q VALUE_DESC = VALUE_DESC;  
660      0765 2  
661      0766 2  
662      0767 2 ! Get the /NOTIFY qualifier.  
663      0768 2  
664      0769 2 PARSE_CALL(IF_TRUE, D_NOTIFY, SJCS_NOTIFY);  
665      0770 2  
666      0771 2  
667      0772 2 ! Get the /PARAMETERS qualifier.  
668      0773 2  
669      0774 2 PARSE_CALL(PARAMETERS, D_PARAMETERS);  
670      0775 2  
671      0776 2  
672      0777 2 ! Get the /PRINTER qualifier.  
673      0778 2  
674      0779 2 PARSE_CALL(PRINTER, D_PRINTER);  
675      0780 2  
676      0781 2  
677      0782 2 ! Get the /PRIORITY qualifier.  
678      0783 2  
679      0784 2 PARSE_CALL(PRIORITY, D_PRIORITY);  
680      0785 2  
681      0786 2
```

```
682    0787 2 ! Get the /RESTART qualifier.  
683    0788 2  
684    0789 2 PARSE_CALL(IF_TRUE, D_RESTART, SJCS_RESTART);  
685    0790 2  
686    0791 2  
687    0792 2 ! Get the /TRAILING_BLANKS qualifier.  
688    0793 2  
689    0794 2 FLAG$[V_TRAILING_BLANKS] = CLI$PRESENT(D_TRAILING_BLANKS);  
690    0795 2  
691    0796 2  
692    0797 2 ! Get the /WSDEFAULT qualifier.  
693    0798 2  
694    0799 2 PARSE_CALL(WORKING_SET, D_WSDEFAULT, SJCS_WSDEFAULT, SJCS_NO_WSDEFAULT);  
695    0800 2  
696    0801 2  
697    0802 2 ! Get the /WSEXtent qualifier.  
698    0803 2  
699    0804 2 PARSE_CALL(WORKING_SET, D_WSEXtent, SJCS_WSEXtent, SJCS_NO_WSEXtent);  
700    0805 2  
701    0806 2  
702    0807 2 ! Get the /WSQUOTA qualifier.  
703    0808 2  
704    0809 2 PARSE_CALL(WORKING_SET, D_WSQUOTA, SJCS_WSQUOTA, SJCS_NO_WSQUOTA);  
705    0810 2  
706    0811 2  
707    0812 2 ! Read the input stream for a PASSWORD command.  
708    0813 2  
709    0814 2 IF NOT GET_RECORD() THEN RETURN TRUE;  
710    0815 2 CURRENT_COMMAND = IDENTIFY_COMMAND_Verb(TRUE, LINE_DESC);  
711    0816 2 IF .CURRENT_COMMAND NEQ K_PASSWORD THEN SIGNAL(INPSMB$_MISSPASS);  
712    0817 2  
713    0818 2  
714    0819 2 ! Parse the PASSWORD command.  
715    0820 2  
716    0821 2 CLISDCL_PARSE(LINE_DESC, INPSMBCLD, 0, GET_LINE_CONTINUATION);  
717    0822 2  
718    0823 2  
719    0824 2 ! Get the parameter, which is the password.  
720    0825 2  
721    0826 2 CLISGET_VALUE(D_P1, PASSWORD_DESC);  
722    0827 2 IF .PASSWORD_DESC[DSC$W_LENGTH] GT RU 31  
723    0828 2 THEN  
724    0829 2     SIGNAL(INPSMB$_INVPASS, 1, PASSWORD_DESC);  
725    0830 2  
726    0831 2  
727    0832 2 ! Validate access to the specified username and password.  
728    0833 2  
729    0834 2 UAF_DESC[0] = %ALLOCATION(UAF_BUFFER);  
730    0835 2 UAF_DESC[1] = UAF_BUFFER;  
731    0836 2 STATUS_1 = LGISVA[IDATE(USERNAME_DESC, PASSWORD_DESC, UAF_DESC);  
732    0837 2 IF NOT .STATUS_1  
733    0838 2 THEN  
734    0839 2     IF .STATUS_1 GEQ 0  
735    0840 2         THEN SIGNAL(INPSMB$_OPENUAF, 0, .STATUS_1)  
736    0841 2         ELSE SIGNAL(INPSMB$_USERVAL);  
737    0842 2  
738    0843 2
```

```
: 739      0844 2 IF NOT .FLAGS[V_NO_LOG_FILE]
740      0845 2 THEN
741      0846 2 BEGIN
742      0847 2
743      0848 2 ! Compute the log file default name string.
744      0849 2
745      0850 2 DNA_DESC[0] = %ALLOCATION(DNA_BUFFER);
746      0851 2 DNA_DESC[1] = DNA_BUFFER;
747      P 0852 2 SFAB(
748      P 0853 2     $DESCRIPTOR('!AC!AC.LOG'),
749      P 0854 2     DNA_DESC,
750      P 0855 2     DNA_DESC,
751      P 0856 2     UAF_BUFFER[UAF$T_DEFDEV],
752      P 0857 2     UAF_BUFFER[UAF$T_DEFDIR]);
753      0858 2
754      0859 2
755      0860 2 ! Compute the log file specification.
756      0861 2
757      P 0862 2 PARSE CALL(NAME AND LOG_FILE,
758      P 0863 2     NAME_DESC, LOG_FILE_DESC,
759      0864 2     DNA_DESC, INPSMB$INVLOGFILE);
760      0865 2 END;
761      0866 2
762      0867 2
763      0868 2 ! Compute the command file default name string.
764      0869 2
765      0870 2 DNA_DESC[0] = %ALLOCATION(DNA_BUFFER);
766      0871 2 DNA_DESC[1] = DNA_BUFFER;
767      P 0872 2 SFAB(
768      P 0873 2     $DESCRIPTOR('!AC!ACINPBATCH.COM'),
769      P 0874 2     DNA_DESC,
770      P 0875 2     DNA_DESC,
771      P 0876 2     UAF_BUFFER[UAF$T_DEFDEV],
772      P 0877 2     UAF_BUFFER[UAF$T_DEFDIR]);
773      0878 2
774      0879 2
775      0880 2 ! Create the output command file.
776      0881 2
777      P 0882 2 SFAB INIT(FAB=OUTPUT_FAB,
778      P 0883 2     DNA=.DNA_DESC[1];
779      P 0884 2     DNS=.DNA_DESC[0];
780      P 0885 2     FAC=PUT,
781      P 0886 2     FNA=.NAME_DESC[DSCSA_POINTER],
782      P 0887 2     FNS=.NAME_DESC[DSCSW_LENGTH],
783      P 0888 2     FOP=SQO,
784      P 0889 2     NAM=OUTPUT_NAM,
785      P 0890 2     ORG=SEQ,
786      P 0891 2     RAT=CR,
787      P 0892 2     RFM=VAR,
788      P 0893 2     XAB=OUTPUT_XAB);
789      P 0894 2 SRAB INIT(RAB=OUTPUT_RAB,
790      P 0895 2     FAB=OUTPUT_FAB,
791      P 0896 2     ROP=WBH);
792      P 0897 2 SNAM INIT(NAM=OUTPUT_NAM,
793      P 0898 2     ESA=OUTPUT_RSA,
794      P 0899 2     ESS=NAMSC_MAXRSS,
795      P 0900 2     RSA=OUTPUT_RSA,
```

```
: 796      2      RSS=NAM$C MAXRSS);
797      P 0901 2      $XABPRO INIT(XAB=OUTPUT_XAB,
798          0902 2      PRO=<RWED,RWED,>);
799          0903 2      OUTPUT_XAB[XAB$L_UIC] = .UAF_BUFFER[UAF$L_UIC];
800          0904 2
801          0905 2
802          0906 2
803          0907 3      IF NOT $CREATE(FAB=OUTPUT_FAB)
804          0908 2      THEN
805          0909 2          FILE_ERROR(
806              INPSMBS FACILITY^16 + SHRS_OPENOUT + STSSK_ERROR,
807              OUTPUT_FAB,
808              .OUTPUT_FAB[FAB$L_STS], .OUTPUT_FAB[FAB$L_STV]);
809          0910 2
810          0911 2
811          0912 2
812          0913 2
813          0914 2
814          0915 3      IF NOT $CONNECT(RAB=OUTPUT_RAB)
815          0916 2      THEN
816          0917 2          FILE_ERROR(
817              INPSMBS FACILITY^16 + SHRS_OPENOUT + STSSK_ERROR,
818              OUTPUT_RAB,
819              .OUTPUT_RAB[RAB$L_STS], .OUTPUT_RAB[RAB$L_STV]);
820          0921 2
821          0922 2
822          0923 2      ! Read the input stream into the command file until a JOB or EOJ command.
823          0924 2
824          0925 2      WHILE TRUE DO
825          0926 2          BEGIN
826          0927 2          LOCAL
827          0928 3          RECORD_LENGTH;           ! Input record length
828          0929 3
829          0930 3
830          0931 3      ! Get the next record. If it is JOB or EOJ, we are finished.
831          0932 3
832          0933 3      IF NOT GET_RECORD() THEN EXITLOOP;
833          0934 3      CURRENT_COMMAND = IDENTIFY_COMMAND VERB(FALSE, LINE_DESC);
834          0935 3      IF .CURRENT_COMMAND EQL K_JOB OR .CURRENT_COMMAND EQL K_EOJ THEN EXITLOOP;
835          0936 3
836          0937 3
837          0938 3      ! Trim trailing blanks if requested.
838          0939 3
839          0940 3      RECORD_LENGTH = .INPUT_RAB[RAB$W_RSZ];
840          0941 3      IF NOT .FLAGS[V_TRAILING_BLANKS]
841          0942 3      THEN
842          0943 4          BEGIN
843          0944 4          WHILE .RECORD_LENGTH GTR 0 DO
844          0945 5              BEGIN
845          0946 5                  IF CH$RCHAR(.INPUT_RAB[RAB$L_RBF] + .RECORD_LENGTH - 1) NEQ %C' '
846          0947 5                  THEN EXITLOOP;
847          0948 5                  RECORD_LENGTH = .RECORD_LENGTH - 1;
848          0949 4
849          0950 3
850          0951 3
851          0952 3
852          0953 3      ! Copy the record to the output command file.
853          0954 3
854          0955 3      OUTPUT_RAB[RAB$W_RSZ] = .RECORD_LENGTH;
855          0956 3      OUTPUT_RAB[RAB$L_RBF] = .INPUT_RAB[RAB$L_RBF];
856          0957 4      IF NOT $PUT(RAB=OUTPUT_RAB)
```

```
: 853      0958 3 THEN FILE_ERROR(
854      0959 3     INPSMB$ FACILITY^16 + SHRS_WRITEERR + STSSK_ERROR,
855      0960 3     OUTPUT_FAB,
856      0961 3     .OUTPUT_RAB[RAB$L_STS], .OUTPUT_RAB[RAB$L_STV]);
857      0962 3
858      0963 2 END;
859      0964 2
860      0965 2
861      0966 2 ! Close the output command file.
862      0967 2
863      0968 3 IF NOT $CLOSE(FAB=OUTPUT_FAB)
864      0969 2 THEN FILE_ERROR(
865      0970 2     INPSMB$ FACILITY^16 + SHRS_CLOSEOUT + STSSK_ERROR,
866      0971 2     OUTPUT_FAB,
867      0972 2     .OUTPUT_FAB[FAB$L_STS], .OUTPUT_FAB[FAB$L_STV]);
868      0973 2
869      0974 2
870      0975 2
871      0976 2 ! Set up the user identification item.
872      0977 2
873      0978 2 Q DCURSOR[0,0,32,0] = .UAF_BUFFER[UAF$L_UIC];
874      0979 2 CR$MOVE(
875      0980 2     UAF$S_USERNAME,
876      0981 2     UAF_BUFFER[UAF$T_USERNAME],
877      0982 2     Q DCURSOR[4,0,0,0]);
878      0983 2 CH$MOVE(
879      0984 2     UAF$S_ACCOUNT,
880      0985 2     UAF_BUFFER[UAF$T_ACCOUNT],
881      0986 2     Q DCURSOR[16,0,0,0]);
882      0987 2 Q_DCURSOR[24,0,8,0] = .UAF_BUFFER[UAF$B_PRI];
883      0988 2
884      0989 2
885      0990 2 ! Add the remaining items and finish the list.
886      0991 2
887      0992 2 Q_ICURSOR[0,0,16,0] = NAMSS_DVI + FIDSC_LENGTH + FIDSC_LENGTH;
888      0993 2 Q_ICURSOR[2,0,16,0] = SJCS_FILE_IDENTIFICATION;
889      0994 2 Q_ICURSOR[4,0,32,0] = OUTPUT_NAM[NAMST_DVI];
890      0995 2 Q_ICURSOR[8,0,32,0] = 0;
891      0996 2
892      0997 2 Q_ICURSOR[12,0,16,0] = 25;
893      0998 2 Q_ICURSOR[14,0,16,0] = SJCS_USER_IDENTIFICATION;
894      0999 2 Q_ICURSOR[16,0,32,0] = .Q_DCURSOR;
895      1000 2 Q_ICURSOR[20,0,32,0] = 0;
896      1001 2
897      1002 2 Q_ICURSOR[24,0,32,0] = 0;
898      1003 2
899      1004 2
900      1005 2 ! Submit the output command file.
901      1006 2
902      P 1007 2 STATUS_2 = $SENDJBCW(
903      P 1008 2     FUNC=SJCS_ENTER_FILE,
904      P 1009 2     IOSB=IOSB,
905      P 1010 2     ITMLST=ITEM_BUFFER);
906      1011 2 IF .STATUS_2 THEN STATUS_2 = .IOSB;
907      1012 2 IF NOT .STATUS_2
908      1013 2 THEN
909      1014 2     SIGNAL(INPSMB$_ENTFIL, 0, .STATUS_2);
```

```

: 910    1015 2
: 911    1016 2
: 912    1017 2 ! Terminate if this was end of file.
: 913    1018 2
: 914    1019 2 IF NOT .INPUT_RAB[RAB$L_STS] THEN RETURN TRUE;
: 915    1020 2 FALSE
: 916    1021 1 END;

```

	48 43 54 41 42 24 53 59 53	003CC P.ABT:	.ASCII \SYSSBATCH\	;
		003D5	.BLKB 3	
		003D8 P.ABS:	.LONG 9	
		003DC	.ADDRESS P.ABT	
	47 4F 4C 2E 43 41 21 43 41 21	003E0 P.ABV:	.ASCII \!AC!AC.LOG\	
		003EA	.BLKB 2	
		003EC P.ABU:	.LONG 10	
		003FO	.ADDRESS P.ABV	
2E	48 43 54 41 42 50 4E 49 43 41 21 43 41 21 4D 4F 43	003F4 P.ABX:	.ASCII \!AC!ACINPBATCH.COM\	
		00403		
		00406	.BLKB 2	
		00408 P.ABW:	.LONG 18	
		0040C	.ADDRESS P.ABX	

\$RMS_PTR=	OUTPUT_FAB
\$RMS_PTR=	OUTPUT_RAB
\$RMS_PTR=	OUTPUT_NAM
\$RMS_PTR=	OUTPUT_XAB
.EXTRN	PARSE_QUEUE, PARSE_AFTER
.EXTRN	PARSE_CHARACTERISTICS
.EXTRN	PARSE_FILENAME, PARSE_CPUTIME
.EXTRN	PARSE_IF_TRUE, PARSE_LOG_FILE
.EXTRN	PARSE_NAME, PARSE_PARAMETERS
.EXTRN	PARSE_PRINTER, PARSE_PRIORITY
.EXTRN	PARSE_WORKING_SET
.EXTRN	SYSSFAO, PARSE_NAME_AND_LOG_FILE
.EXTRN	SYSSCREATE, SYSSPUT
.EXTRN	SYSSNDJBCW

OFFC 00000 PROCESSING LOOP:

57	FBF6	CF 9E 00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	0616
56	0000*	CF 9E 00007	MOVAB	D P1, R7	
5E	E95C	CE 9E 0000C	MOVAB	\$RMS_PTR, R6	
6D	FF54	CF 9E 00011	MOVAB	-5796(SP), SP	
5B	F800	CD 9E 00016	MOVAB	PROCESSING_LOOP_HANDLER, (FP)	0663
5A	06A4	CE 9E 0001B	MOVAB	ITEM_BUFFER, Q_ICURSOR	0672
59	00000000*	8F D0 00020	MOVL	DATA_BUFFER, Q_DCURSOR	
			MOVL	#<<<INPSMBS_FACILITY@16>!4488>!4>, -	
				Q_MESSAGE	
58	02BC	C6 9E 00027	MOVAB	VALUE_DESC, Q_VALUE_DESC	
01	02E4	C6 D1 0002C	1\$: CMPL	CURRENT_COMMAND, #1-	0677
		1B 13 00031	BEQL	3\$	
0000V	CF 03	00 FB 00033	CALLS	#0, GET_RECORD	
		50 E8 00038	BLBS	R0, 2\$	0679
		047A 31 0003B	BRW	20\$	
		5E DD 0003E	2\$: PUSHL	SP	
		7E D4 00040	CLRL	-(SP)	0680

INPSMB
V04-000

Input symbiont

L 7
16-Sep-1984 01:43:25 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:35:25 [INPSMB.SRC]INPSMB.B32;1

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(5)

02A4	C6	01		58	02C4	C6	9E	00137	MOVAB	LOG FILE DESC, Q_VALUE_DESC	0756		
			0000G	CF	00	A7	9F	0013C	PUSHAB	D LOG FILE	0757		
				58	02CC	01	FB	00144	CALLS	#T, PARSE LOG FILE	0762		
			0000G	CF	0088	C6	9E	0014B	INSV	RO, #0, #T, FLAGS	0763		
				58	02BC	C7	9F	00150	MOVAB	NAME DESC, Q_VALUE_DESC	0764		
			0000G	CF	7E	6C	8F	00154	PUSHAB	D NAME	0769		
				0098	00	C7	9F	00159	CALLS	#T, PARSE NAME	0774		
			0000G	CF	00AC	02	FB	00162	MOVAB	VALUE_DESC, Q_VALUE_DESC	0777		
				0000G	CF	00BC	C7	9F	00166	MOVZBL	#108, -(SP)	0779	
				00CC	00	01	FB	0016B	PUSHAB	D NOTIFY	0784		
			0000G	CF	00EC	C7	9F	00174	CALLS	#2, PARSE IF_TRUE	0789		
				0104	00	01	FB	00178	PUSHAB	D PARAMETERS	0794		
			0000G	CF	7E	8A	8F	00181	CALLS	#T, PARSE_PARAMETERS	0799		
				0000G	CF	00	9A	00186	PUSHAB	D PRINTER	0804		
				0000G	CF	00	FB	0018A	CALLS	#T, PARSE_PRINTER	0809		
			0000G	CF	00	02	FB	0018E	PUSHAB	D PRIORITY	0814		
				0000G	CF	00	C7	9F	00193	CALLS	#T, PARSE_PRIORITY	0819	
			00000000G	00	00	01	FB	00197	PUSHAB	D RESTART	0824		
				00000000G	00	02	50	FB	0019E	CALLS	#2, PARSE_IF_TRUE	0829	
				00000000G	00	7E	98	8F	9A	INSV	D TRAILING_BLANKS	0834	
				00000000G	00	7E	97	8F	9A	PUSHAB	#T, CLISPRESENT	0839	
			0000G	CF	00	0118	C7	9F	001A5	MOVZBL	RO, #2, #1, FLAGS	0844	
				0000G	CF	00	7E	9A	9A	MOVZBL	#152, -(SP)	0849	
			0000G	CF	00	7E	99	8F	9A	MOVZBL	#151, -(SP)	0854	
				0000G	CF	00	0128	C7	9F	PUSHAB	D WSDEFAULT	0859	
			0000G	CF	00	7E	9C	8F	9A	CALLS	#3, PARSE_WORKING_SET	0864	
				0000G	CF	00	7E	9B	8F	MOVZBL	#154, -(SP)	0869	
			0000G	CF	00	0138	C7	9F	001BA	MOVZBL	#153, -(SP)	0874	
				0000G	CF	00	00	FB	001BE	PUSHAB	D WSEXTENT	0879	
			0000G	CF	00	00	03	FB	001C2	CALLS	#3, PARSE_WORKING_SET	0884	
				0000V	CF	00	00	9C	8F	MOVZBL	#156, -(SP)	0889	
			0000V	CF	00	00	9B	8F	9A	MOVZBL	#155, -(SP)	0894	
				0000G	CF	00	0138	C7	9F	PUSHAB	D WSQUOTA	0899	
			0000G	CF	00	00	03	FB	001D3	CALLS	#3, PARSE_WORKING_SET	0904	
			0000V	CF	00	00	50	FB	001D8	CALLS	#0, GET_RECORD	0909	
				0000V	CF	00	03	E8	001DD	BLBS	RO, SS	0914	
					02D5	31	001E0	5E	DD	BRW	20\$	0919	
						01	DD	001E3	5\$:	PUSHL	SP	0924	
			0000V	CF	00	02	FB	001E5	PUSHL	#1	0929		
			02E4	C6	05	02E4	50	DD	001E7	CALLS	#2, IDENTIFY_COMMAND_VERB	0934	
				02E4	C6	05	D0	001EC	MOVL	RO, CURRENT_COMMAND	0939		
					00000000G	00	D1	001F1	CMPL	CURRENT_COMMAND, #5	0944		
					00000000G	00	OD	13	001F6	BEQL	6\$	0949	
					00000000G	00	8F	DD	001F8	PUSHL	#INPSMB\$_MISSPASS	0954	
					00000000G	00	01	FB	001FE	CALLS	#1, LIB\$SIGNAL	0959	
					00000000G	00	CF	9F	00205	6\$:	PUSHAB	GET_LINE_CONTINUATION	0964
					00000000G	00	7E	D4	00209	CLRL	-(SP)	0969	
					00000000G	00	CF	9F	0020B	PUSHAB	INPSMBCLD	0974	
					00000000G	00	OC	AE	9F	PUSHAB	LINE_DESC	0979	
					00000000G	00	04	FB	00212	CALLS	#4, CLISDCL_PARSE	0984	
					00000000G	00	02DC	C6	9F	PUSHAB	PASSWORD_DESC	0989	
					00000000G	00	57	DD	00219	PUSHL	R7	0994	
					00000000G	00	1F	02DC	C6	CALLS	#2, CLISGET_VALUE	0999	
					00000000G	00	13	B1	00226	CMPW	PASSWORD_DESC, #31	1004	
					00000000G	00	02DC	C6	9F	BLEQU	7\$	1009	
					00000000G	00	13	1B	0022B	PUSHAB	PASSWORD_DESC	1014	
					00000000G	00	02DC	C6	9F	PUSHAB	0	1019	

					PUSHL #1	
					PUSHL #INPSMB\$ INVPASS	
					CALLS #3 LIB\$SIGNAL	
					MOVZWL #1412, UAF_DESC	
					MOVAB UAF_BUFFER, UAF_DESC+4	
					PUSHAB UAF_DESC	0834
					PUSHAB PASSWORD_DESC	0835
					PUSHAB USERNAME_DESC	0836
					CALLS #3, LGISVALIDATE	
					BLBS STATUS_1, 9\$	0837
					TSTL STATUS_1	0839
					BLSS 8\$	
					PUSHL STATUS_1	0840
					CLRL -(SP)	
					PUSHL #INPSMB\$ OPENUAF	
					CALLS #3, LIB\$SIGNAL	
					BRB 9\$	
					PUSHL #INPSMB\$ USERVAL	0841
					CALLS #1, LIB\$SIGNAL	
					BLBS FLAGS, 10\$	
					MOVZBL #255, DNA_DESC	0844
					MOVAB DNA_BUFFER, DNA_DESC+4	0850
					PUSHAB UAF_BUFFER+148	0851
					PUSHAB UAF_BUFFER+116	0857
					PUSHAB DNA_DESC	
					PUSHAB DNA_DESC	
					PUSHAB P_AB	
					CALLS #5, SYSSFAO	
					PUSHL #INPSMB\$ INVLOGFILE	0864
					PUSHAB DNA_DESC	
					PUSHAB LOG_FILE_DESC	
					PUSHAB NAME_DESC	
					CALLS #4, PARSE_NAME_AND_LOG_FILE	
					MOVZBL #255, DNA_DESC	0870
					MOVAB DNA_BUFFER, DNA_DESC+4	0871
					PUSHAB UAF_BUFFER+148	0877
					PUSHAB UAF_BUFFER+116	
					PUSHAB DNA_DESC	
					PUSHAB DNA_DESC	
					PUSHAB P_ABW	
					CALLS #5, SYSSFAO	
					MOVCS #0, (SP), #0, #80, \$RMS_PTR	0893
					MOVW #20483, \$RMS_PTR	
					MOVZBL #64, \$RMS_PTR+4	
					MOVB #1 \$RMS_PTR+22	
					MOVW #512 \$RMS_PTR+29	
					MOVB #2 \$RMS_PTR+31	
					MOVAB OUTPUT_XAB, \$RMS_PTR+36	
					MOVAB OUTPUT_NAM, \$RMS_PTR+40	
					MOVL NAME_DESC+4, \$RMS_PTR+44	
					MOVL DNA_DESC+4, \$RMS_PTR+48	
					MOVB NAME_DESC, \$RMS_PTR+52	
					MOVB DNA_DESC, \$RMS_PTR+53	
					MOVCS #0, (SP), #0, #68, \$RMS_PTR	0896
					MOVW #17409, \$RMS_PTR	

0060	8F	00	54 008C	A6 C6 6E	0400	8F 66 00	3C 0033A 00340 00345	MOVZWL MOVAB MOVCS	#1024, \$RMS_PTR+4 OUTPUT_FAB, -\$RMS_PTR+60 #0, (SP), #0, #96, \$RMS_PTR	0901		
0058	8F	00	0094 0096 0098 009E	C6	6002 014C	8F 01 C6 01	B0 0034F 00356 0035B 00362	MOVW MNEG_B MOVAB MNEG_B	#24578, \$RMS_PTR #1, \$RMS_PTR+2 OUTPUT_R5A, \$RMS_PTR+4 #1, \$RMS_PTR+10	:		
			00A0	C6	014C	C6	9E 00	0036E 2C	MOVAB MOVCS	OUTPUT_R5A, \$RMS_PTR+12 #0, (SP), #0, #88, \$RMS_PTR	0903	
			00F4 00FC 0100	C6	5813 FF00 0144	8F 8F CE	B0 0037F DO	MOVW MOVW MOVL	#22547, \$RMS_PTR #256, \$RMS_PTR+8 UAF_BUFFER+36, OUTPUT_XAB+12	0904		
			00000000G	00		56	DD	0038D	PUSHL	R6	0907	
			11			01	FB	0038F	CALLS	#1, SYSSCREATE		
			7E	08	A6	7D	00399	BLBS	R0, 11\$			
						56	DD	0039D	MOVQ	OUTPUT_FAB+8, -(SP)	0912	
			00000V	CF	00000000*	8F	DD	0039F	PUSHL	#<<<INPSMB\$_FACILITY@16>+4256>+2>	0909	
						04	FB	003A5	CALLS	#4, FILE_ERROR	0910	
			00000000G	00	50	A6	9F	003AA	11\$:	PUSHAB	OUTPUT_RAB	0915
			11			01	FB	003AD	CALLS	#1, SYSSCONNECT		
			7E	58	A6	7D	003B7	BLBS	R0, 13\$			
						56	DD	003BB	MOVQ	OUTPUT_RAB+8, -(SP)	0920	
			00000V	CF	00000000*	8F	DD	003BD	PUSHL	#<<<INPSMB\$_FACILITY@16>+4256>+2>	0917	
			00000V	CF	04	FB	003C3	12\$:	CALLS	#4, FILE_ERROR	0918	
			00000V	CF	00	FB	003C8	13\$:	CALLS	#0, GET_RECORD	0933	
				5E	50	E9	003CD	BLBC	R0, 16\$			
					5E	DD	003D0	PUSHL	SP	0934		
					7E	D4	003D2	CLRL	-(SP)			
			00000V	CF	02	FB	003D4	CALLS	#2, IDENTIFY_COMMAND_VERB			
			02E4	C6	50	DO	003D9	MOVL	R0, CURRENT_COMMAND			
			01	02E4	C6	D1	003DE	CMPL	CURRENT_COMMAND, #1	0935		
					49	13	003E3	BEQL	16\$			
			03	02E4	C6	D1	003E5	CMPL	CURRENT_COMMAND, #3			
					42	13	003EA	BEQL	16\$			
12	02A4	51	FDDE	C6	3C	003EC		MOVZWL	INPUT_RAB+34, RECORD_LENGTH	0940		
					02	E0	003F1	BBS	#2 FLAGS, 15\$	0941		
		50			10	15	003F7	BLEQ	15\$	0944		
50		51	FDE4	C6	C1	003F9		ADDL3	INPUT_RAB+40, RECORD_LENGTH, R0	0946		
		20	FF	A0	91	003FF		CMPB	-1(R0), #32			
					04	12	00403	BNEQ	15\$			
					51	D7	00405	DECL	RECORD_LENGTH	0948		
					EE	11	00407	BRB	14\$	0944		
			72	A6	51	B0	00409	15\$:	MOVW	RECORD_LENGTH, OUTPUT_RAB+34	0955	
			78	A6	FDE4	C6	DO	0040D	MOVL	INPUT_RAB+40, OUTPUT_RAB+40	0956	
					50	A6	9F	00413	PUSHAB	OUTPUT_RAB	0957	
			00000000G	00	01	FB	00416	CALLS	#1, SYSSPUT			
			A8		50	E8	0041D	BLBS	R0, 13\$			
			7E	58	A6	7D	00420	MOVQ	OUTPUT_RAB+8, -(SP)	0962		
					56	DD	00424	PUSHL	R6	0959		
			00000000*		8F	DD	00426	BRB	12\$	0960		
					95	11	0042C	PUSHL	#<<<INPSMB\$_FACILITY@16>+4304>+2>			
			00000000G	00	56	DD	0042E	16\$:	PUSHL	R6	0968	
					01	FB	00430	CALLS	#1, SYSCLOSE			

		11	50	E8 00437	BLBS	R0, 17\$		
		7E	08	A6 7D 0043A	MOVQ	OUTPUT_FAB+8, -(SP)		0973
			56	DD 0043E	PUSHL	R6		0970
		00000V	CF	00000000*	8F	DD 00440	PUSHL	<<<INPSMB\$ FACILITY@16>+4184>+2>
		0124	6A	0144	04	FB 00446	CALLS	#4, FILE_ERROR
04	AA	0154	CE	0144	CE	D0 0044B	17\$:	MOVL UAF_BUFFER+36, (Q_DCURSOR)
10	AA	18	CE	0324	20	28 00450	MOVC3	#32, UAF_BUFFER+4, 4(Q_DCURSOR)
		6B	0027001C	0027001C	20	28 00457	MOVC3	#32, UAF_BUFFER+52, 16(Q_DCURSOR)
		04	AB	00A8	C6	9E 0046B	MOVB	UAF_BUFFER+516, 24(Q_DCURSOR)
				08	AB	D4 00471	MOVAB	#2555932, (Q_ICURSOR)
		OC	AB	00960019	8F	D0 00474	CLRL	OUTPUT_NAM+20, 4(Q_ICURSOR)
		10	AB		5A	D0 0047C	MOVL	#9830425, 12(Q_ICURSOR)
				14	AB	7C 00480	MOVL	Q_DCURSOR, 16(Q_ICURSOR)
					7E	7C 00483	CLRQ	20(Q_ICURSOR)
				10	AE	9F 00485	CLRQ	-(SP)
				F800	CD	9F 00488	PUSHAB	IOSB
			7E		13	7D 0048C	PUSHAB	ITEM_BUFFER
		00000000G	00		7E	D4 0048F	MOVQ	#19, -(SP)
		07			07	FB 00491	CALLS	#7, SYSSNDJBCW
		50		08	50	E9 00498	BLBC	STATUS_2, 18\$
		11			AE	D0 0049B	MOVL	IOSB, STATUS_2
					50	E8 0049F	BLBS	STATUS_2, 19\$
					50	DD 004A2	18\$:	STATUS_2
		00000000G	00	00000000G	7E	D4 004A4	CLRL	-(SP)
		04	FDC4		8F	DD 004A6	PUSHL	#INPSMB\$ ENTFIL
		50			03	FB 004AC	CALLS	#3, LIB\$SIGNAL
					C6	E8 004B3	19\$:	INPUT_RAB+8, 21\$
					01	D0 004B8	20\$:	MOVL #1, R0
					04	004BB	RET	
					50	D4 004BC	21\$:	CLRL R0
					04	004BE	RET	

; Routine Size: 1215 bytes, Routine Base: CODE + 0410

```
918    1022 1 ROUTINE GET_RECORD=
919    1023 1
920    1024 1 ++
921    1025 1
922    1026 1 FUNCTIONAL DESCRIPTION:
923    1027 1 This routine gets the next record from the input stream.
924    1028 1
925    1029 1 INPUT PARAMETERS:
926    1030 1     NONE
927    1031 1
928    1032 1 IMPLICIT INPUTS:
929    1033 1     NONE
930    1034 1
931    1035 1 OUTPUT PARAMETERS:
932    1036 1     NONE
933    1037 1
934    1038 1 IMPLICIT OUTPUTS:
935    1039 1     NONE
936    1040 1
937    1041 1 ROUTINE VALUE:
938    1042 1     Completion status.
939    1043 1
940    1044 1 SIDE EFFECTS:
941    1045 1     NONE
942    1046 1
943    1047 1 --
944    1048 1
945    1049 2 BEGIN
946    1050 2 IF .CARD_CHANNEL NEQ 0
947    1051 2 THEN
948    1052 3 BEGIN
949    1053 3 LOCAL
950    1054 3     STATUS;
951    1055 3
952    1056 3
953    1057 3 IF .FLAGS[V_SECOND_BUFFER]
954    1058 3 THEN
955    1059 4 BEGIN
956    1060 4
957    1061 4     ! The second buffer had the pending read. Wait for it to complete
958    1062 4     and examine the IOSB for status. Logically translate an EOF card
959    1063 4     to an EOJ command.
960    1064 4
961    1065 4     $WAITFR(EFN=K_EFN_B);
962    1066 4     IF .CARD_IOSB_B[0] EQL SSS_ENDOFFILE
963    1067 4     THEN
964    1068 5     BEGIN
965    1069 5         INPUT_RAB[RAB$L_STS] = SSS_NORMAL;
966    1070 5         INPUT_RAB[RAB$W_RS?] = %CHARCOUNT('$ EOJ');
967    1071 5         INPUT_RAB[RAB$L_RBF] = UPLIT BYTE('$ EOJ');
968    1072 5     END
969    1073 4     ELSE IF NOT .CARD_IOSB_B[0]
970    1074 4     THEN
971    1075 4         FILE_ERROR(
972    1076 4             INPSMBS_FACILITY^16 + SHRS_READERR + STSSK_SEVERE,
973    1077 4             INPUT_FAB,
974    1078 4             .CARD_IOSB_B[0])
```

```

975      1079  4      ELSE
976      1080  5      BEGIN
977      1081  5      INPUT_RAB[RAB$L_STS] = .CARD_IOSB_B[0];
978      1082  5      INPUT_RAB[RAB$W_RSZ] = .CARD_IOSB_B[1];
979      1083  5      INPUT_RAB[RAB$L_RBF] = INPUT_UBF + 80;
980      1084  4      END;

981      1085  4
982      1086  4
983      1087  4      ! Start a read in the first buffer.
984      1088  4
985      P 1089  4      STATUS = $QIO(
986      P 1090  4      EFN=K_EFN_A,
987      P 1091  4      FUNC=IOS_READLBLK,
988      P 1092  4      CHAN=.CARD_CHANNEL,
989      P 1093  4      IOSB=CARD_IOSB_A,
990      P 1094  4      P1=INPUT_UBF,
991      1095  4      P2=80);
992      1096  4      FLAGS[V_SECOND_BUFFER] = FALSE;
993      1097  4      END
994      1098  3      ELSE
995      1099  4      BEGIN
996      1100  4
997      1101  4      ! The first buffer had the pending read. Wait for it to complete
998      1102  4      and examine the IOSB for status. Logically translate an EOF card
999      1103  4      to an EOJ command.
1000     1104  4
1001     1105  4      SWAITFR(EFN=K_EFN_A);
1002     1106  4      IF .CARD_IOSB_A[0] EQL SSS_ENDOFFILE
1003     1107  4      THEN
1004     1108  5      BEGIN
1005     1109  5      INPUT_RAB[RAB$L_STS] = SSS_NORMAL;
1006     1110  5      INPUT_RAB[RAB$W_RSZ] = %CHARCOUNT('$ EOJ');
1007     1111  5      INPUT_RAB[RAB$L_RBF] = UPLIT BYTE('$ EOJ');
1008     1112  5      END
1009     1113  4      ELSE IF NOT .CARD_IOSB_A[0]
1010     1114  4      THEN
1011     1115  4      FILE_ERROR(
1012     1116  4      INPSMB$_FACILITY^16 + SHR$_READERR + STSSK_SEVERE,
1013     1117  4      INPUT_FAB,
1014     1118  4      .CARD_IOSB_A[0])
1015     1119  4      ELSE
1016     1120  5      BEGIN
1017     1121  5      INPUT_RAB[RAB$L_STS] = .CARD_IOSB_A[0];
1018     1122  5      INPUT_RAB[RAB$W_RSZ] = .CARD_IOSB_A[1];
1019     1123  5      INPUT_RAB[RAB$L_RBF] = INPUT_UBF;
1020     1124  4      END;

1021     1125  4
1022     1126  4
1023     1127  4      ! Start a read in the second buffer.
1024     1128  4
1025     P 1129  4      STATUS = $QIO(
1026     P 1130  4      EFN=K_EFN_B,
1027     P 1131  4      FUNC=IOS_READLBLK,
1028     P 1132  4      CHAN=.CARD_CHANNEL,
1029     P 1133  4      IOSB=CARD_IOSB_B,
1030     P 1134  4      P1=INPUT_UBF + 80,
1031     1135  4      P2=80);

```

```
1032 1136 4      FLAGS[V_SECOND_BUFFER] = TRUE;
1033 1137 3      END;
1034 1138 3
1035 1139 3
1036 1140 3      | Check status of the SQIO.
1037 1141 3
1038 1142 3      IF NOT .STATUS
1039 1143 3      THEN
1040 1144 3          FILE_ERROR(
1041 1145 3              INPSMB$_FACILITY^16 + SHRS_READERR + STSSK_SEVERE,
1042 1146 3              INPUT_FAB,
1043 1147 3              .STATUS);
1044 1148 3
1045 1149 3
1046 1150 3      | Note that an input operation has completed, for the periodic timer.
1047 1151 3
1048 1152 3      INPUT_COMPLETIONS = .INPUT_COMPLETIONS + 1;
1049 1153 3      END
1050 1154 2 ELSE
1051 1155 3          BEGIN
1052 1156 4              IF NOT $GET(RAB=INPUT_RAB)
1053 1157 3                  THEN
1054 1158 3                      IF .INPUT_RAB[RAB$L_STS] NEQ RMSS_EOF
1055 1159 3                          THEN
1056 1160 3                              FILE_ERROR(
1057 1161 3                                  INPSMB$_FACILITY^16 + SHRS_READERR + STSSK_SEVERE,
1058 1162 3                                  INPUT_FAB,
1059 1163 3                                  .INPUT_RAB[RAB$L_STS], .INPUT_RAB[RAB$L_STV]);
1060 1164 2          END;
1061 1165 2
1062 1166 2
1063 1167 2      .INPUT_RAB[RAB$L_STS]
1064 1168 1      END;
```

4A 4F 45 20 24 008CF P.ABY: .ASCII \\$ EOJ\

4A 4F 45 20 24 008D4 P.ABZ: .ASCII \\$ EOJ\

.EXTRN SYSSWAITFR, SYSS\$GET

003C 00000 GET_RECORD:

1A	A2		05	B0	0003C	MOVW	#5, INPUT_RAB+34	1070
20	A2	B3	AF	9E	00040	MOVAB	P_ABY, INPUT_RAB+40	1071
			22	11	00045	BRB	4\$	1066
	10		50	E8	00047	BLBS	R0, 3\$	1073
			50	DD	0004A	PUSHL	R0	1078
		A8	A2	9F	0004C	PUSHAB	INPUT_FAB	1075
		00000000*	8F	DD	0004F	PUSHL	#<<<INPSMB\$_FACILITY@16>+4272>+4>	1076
	64		03	FB	00055	CALLS	#3, FILE_ERROR	1075
			OF	11	00058	BRB	4\$	1078
	1A	62	50	DO	0005A	MOVL	R0, INPUT_RAB+8	1075
	20	A2	C2	BO	0005D	MOVW	CARD_IOSB_B+2, INPUT_RAB+34	1081
		04F2	C2	9E	00063	MOVAB	INPUT_UBF+80, INPUT_RAB+40	1082
		01EC	7E	7C	00069	CLRQ	-(SP)	1083
			7E	7C	0006B	CLRQ	-(SP)	1095
	7E		50	8F	9A 0006D	MOVZBL	#80, -(SP)	:
			019C	C2	9F 00071	PUSHAB	INPUT_UBF	:
			7E	7C	00075	CLRQ	-(SP)	:
			04E8	C2	9F 00077	PUSHAB	CARD_IOSB_A	:
				21	DD 0007B	PUSHL	#33	:
	7E	A4	A2	3C	0007D	MOVZWL	CARD_CHANNEL, -(SP)	:
			01	DD	00081	PUSHL	#1	:
	04E0	65	OC	FB	00083	CALLS	#12, SYSSQIO	1096
		C2	02	8A	00086	BICB2	#2, FLAGS	1057
			64	11	0008B	BRB	9\$	1105
			01	DD	0008D	PUSHL	#1	1105
		63	01	FB	0008F	CALLS	#1, SYSSWAITFR	:
	0870	50	C2	3C	00092	MOVZWL	CARD_IOSB_A, R0	1106
		04E8	50	B1	00097	CMPW	R0, #2160	:
			OF	12	0009C	BNEQ	6\$:
	1A	62	01	DO	0009E	MOVL	#1, INPUT_RAB+8	1109
	20	A2	05	B0	000A1	MOVW	#5, INPUT_RAB+34	1110
		FF52	CF	9E	000A5	MOVAB	P_ABZ, INPUT_RAB+40	1111
			22	11	000AB	BRB	8\$	1106
	10		50	E8	000AD	BLBS	R0, 7\$	1113
			50	DD	000B0	PUSHL	R0	1118
		A8	A2	9F	000B2	PUSHAB	INPUT_FAB	1115
		00000000*	8F	DD	000B5	PUSHL	#<<<INPSMB\$_FACILITY@16>+4272>+4>	1116
			64	03	FB 000BB	CALLS	#3, FILE_ERROR	:
			OF	11	000BE	BRB	8\$	1115
	1A	62	50	DO	000C0	MOVL	R0, INPUT_RAB+8	1121
	20	A2	04EA	C2	BO 000C3	MOVW	CARD_IOSB_A+2, INPUT_RAB+34	1122
		019C	C2	9E	000C9	MOVAB	INPUT_UBF, INPUT_RAB+40	1123
			7E	7C	000CF	CLRQ	-(SP)	1135
			7E	7C	000D1	CLRQ	-(SP)	:
	7E		50	8F	9A 000D3	MOVZBL	#80, -(SP)	:
			01EC	C2	9F 000D7	PUSHAB	INPUT_UBF+80	:
			7E	7C	000DB	CLRQ	-(SP)	:
			04F0	C2	9F 000DD	PUSHAB	CARD_IOSB_B	:
				21	DD 000E1	PUSHL	#33	:
	7E	A4	A2	3C	000E3	MOVZWL	CARD_CHANNEL, -(SP)	:
			02	DD	000E7	PUSHL	#2	:
	04E0	65	OC	FB	000E9	CALLS	#12, SYSSQIO	1136
		C2	02	88	000EC	BICB2	#2, FLAGS	1142
		0E	50	E8	000F1	BLBS	STATUS, 10\$	1147
			50	DD	000F4	PUSHL	STATUS	1144
		A8	A2	9F	000F6	PUSHAB	INPUT_FAB	1144
		00000000*	8F	DD	000F9	PUSHL	#<<<INPSMB\$_FACILITY@16>+4272>+4>	1145

INPSMB
V04-000

Input symbiont

G 8
16-Sep-1984 01:43:25 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:35:25 [INPSMB.SRC]INPSMB.B32:1

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64		03	FB 000FF	CALLS #3, FILE ERROR	: 1152
		C2	D6 00102	INCL INPUT_COMPLETIONS	: 1050
		25	11 00106	BRB 12\$: 1156
00000000G	00	F8	A2 9F 00108	PUSHAB INPUT_RAB	: 1158
0001827A	18		01 FB 0010B	CALLS #1, S\$SGET	: 1160
	BF		50 E8 00112	BLBS R0, 12\$: 1161
			62 D1 00115	CMPL INPUT_RAB+8, #98938	: 1163
			0F 13 0011C	BEQL 12\$: 1164
	7E		62 7D 0011E	MOVQ INPUT_RAB+8, -(SP)	: 1165
		A8	A2 9F 00121	PUSHAB INPUT_FAB	: 1166
			8F DD 00124	PUSHL #<<INPSMB\$_FACILITY@16>+4272>+4>	: 1167
64		04	FB 0012A	CALLS #4, FILE_ERROR	: 1168
50		62	D0 0012D	MOVL INPUT_RAB+8, R0	: 1169
		04	00130	RET	: 1170

; Routine Size: 305 bytes. Routine Base: CODE + 08D9

```
: 1066    1169 1 ROUTINE IDENTIFY_COMMAND_VERB(PASSWORD,LINE_DESC)=  
: 1067    1170 1  
: 1068    1171 1 ++  
: 1069    1172 1  
: 1070    1173 1 FUNCTIONAL DESCRIPTION:  
: 1071    1174 1 This routine identifies a record that contains a valid JOB, EOJ, or  
: 1072    1175 1 PASSWORD command verb.  
: 1073    1176 1  
: 1074    1177 1 INPUT PARAMETERS:  
: 1075    1178 1 PASSWORD      - True if a PASSWORD command is valid.  
: 1076    1179 1 LINE_DESC     - Address of a quadword that receives a descriptor for  
: 1077    1180 1                 the portion of the record following the dollar sign,  
: 1078    1181 1                 if the routine value is true.  
: 1079    1182 1  
: 1080    1183 1 IMPLICIT INPUTS:  
: 1081    1184 1 INPUT_RAB   - Describes the current record.  
: 1082    1185 1  
: 1083    1186 1 OUTPUT PARAMETERS:  
: 1084    1187 1 NONE  
: 1085    1188 1  
: 1086    1189 1 IMPLICIT OUTPUTS:  
: 1087    1190 1 NONE  
: 1088    1191 1  
: 1089    1192 1 ROUTINE VALUE:  
: 1090    1193 1 K_NONE if no significant verb (false value).  
: 1091    1194 1 K_JOB, K_EOJ, K_PASSWORD if recognized (true value).  
: 1092    1195 1  
: 1093    1196 1 SIDE EFFECTS:  
: 1094    1197 1 NONE  
: 1095    1198 1  
: 1096    1199 1 --  
: 1097    1200 1  
: 1098    1201 2 BEGIN  
: 1099    1202 2 MAP  
: 1100    1203 2 LOCAL   LINE_DESC: REF BBLOCK;           ! Pointer to line descriptor  
: 1101    1204 2  
: 1102    1205 2 TPA_PARAM: BBLOCK[TPASK_LENGTH0], ! TPARSE parameter block  
: 1103    1206 2 UPCODE_BUFFER: BBLOCK[%ALLOCATION(INPUT_UBF)];  
: 1104    1207 2  
: 1105    1208 2  
: 1106    1209 2 Initialize TPARSE parameter block.  
: 1107    1210 2  
: 1108    1211 2 CH$FILL(0, %ALLOCATION(TPA_PARAM), TPA_PARAM);  
: 1109    1212 2 TPA_PARAM[TPASL_COUNT] = TPASK_COUNT0;  
: 1110    1213 2 TPA_PARAM[TPASL_STRINGCNT] = .INPUT_RAB[RAB$W_RSZ];  
: 1111    1214 2 TPA_PARAM[TPASL_STRINGPTR] = .INPUT_RAB[RAB$L_RBF];  
: 1112    1215 2  
: 1113    1216 2  
: 1114    1217 2 Scan the line for a leading dollar sign.  
: 1115    1218 2  
: 1116    1219 2 IF LIB$TPARSE(TPA_PARAM, DOLLAR_STATES, DOLLAR_KEYS)  
: 1117    1220 2 THEN  
: 1118    1221 3 BEGIN  
: 1119    1222 3  
: 1120    1223 3 ! Initialize the line descriptor to describe the portion of the line  
: 1121    1224 3                 following the leading dollar sign.  
: 1122    1225 3
```

```

1123      1226 3   LINE_DESC[DSC$W_LENGTH] = .TPA_PARAM[TPASL_STRINGCNT];
1124      1227     LINE_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
1125      1228     LINE_DESC[DSC$B_CLASS] = DSC$K_CLASS_S;
1126      1229     LINE_DESC[DSC$A_POINTER] = .TPA_PARAM[TPASL_STRINGPTR];
1127
1128
1129      1231     ! Upcase the remaining portion of the line into the temporary buffer.
1130      1232     MOVTC(
1131      1233         TPA_PARAM[TPASL_STRINGCNT], .TPA_PARAM[TPASL_STRINGPTR],
1132      1234         %REF(0),
1133      1235         LIB$AB_UPCASE,
1134      1236             TPA_PARAM[TPASL_STRINGCNT], UPCASE_BUFFER);
1135      1237             TPA_PARAM[TPASL_STRINGPTR] = UPCASE_BUFFER;
1136
1137      1240
1138      1241     ! Scan the line for an unabbreviated 'JOB'.
1139      1242     IF LIB$TPARSE(TPA_PARAM, JOB_STATES, JOB_KEYS)
1140
1141      1244     THEN
1142      1245         RETURN K_JOB;
1143
1144
1145      1247
1146      1248     ! Scan the line for an unabbreviated 'EOJ'.
1147      1249     IF LIB$TPARSE(TPA_PARAM, EOJ_STATES, EOJ_KEYS)
1148
1149      1251     THEN
1150      1252         RETURN K_EOJ;
1151
1152      1254
1153      1255     ! If a PASSWORD command is valid, scan the line for a possibly abbreviated
1154      1256     ! 'PASSWORD'.
1155      1257
1156      1258     IF .PASSWORD
1157      1259     THEN
1158      1260         BEGIN
1159      1261             TPA_PARAM[TPASV_ABBREV] = TRUE;
1160      1262             IF [IB$TPARSE(TPA_PARAM, PASSWORD_STATES, PASSWORD_KEYS)
1161      1263             THEN
1162      1264                 RETURN K_PASSWORD;
1163      1265             END;
1164      1266         END;
1165      1267
1166      1268
1167      1269     2 K_NONE
1168      1270     2 END;
1169      1271     1 END;

```

007C 00000 IDENTIFY_COMMAND VERB:

24

00

56 00000000G	00 9E 00002	:WORD Save R2,R3,R4,R5,R6	: 1169
5E FF3C	CE 9E 00009	MOVAB LIB\$TPARSE, R6	
6E	00 2C 0000E	MOVAB -196(SP), SP	
DC	AD 00013	MOVC5 #0, (SP), #0, #36, TPA_PARAM	1211

	DC	AD	08	D0	00015	MOVL	#8, TPA_PARAM	1212
	E4	AD	0000'	CF	3C 00019	MOVZWL	INPUT_RAB+34, TPA_PARAM+8	1213
	E8	AD	0000'	CF	D0 0001F	MOVL	INPUT_RAB+40, TPA_PARAM+12	1214
			0000V	CF	9F 00025	PUSHAB	DOLLAR_KEYS	1219
			0000V	CF	9F 00029	PUSHAB	DOLLAR_STATES	
			DC	AD	9F 0002D	PUSHAB	TPA_PARAM	
			66		03 FB 00030	CALLS	#3, LIB\$TPARSE	
			6C		50 E9 00033	BLBC	R0, 3\$	
			50	08	AC D0 00036	MOVL	LINE_DESC, R0	1226
			60	E4	AD B0 0003A	MOVW	TPA_PARAM+8, (R0)	1227
00000000G 00	00	02	A0	010E	8F B0 0003E	MOVW	#270, 2(R0)	1229
		04	A0	E8	AD D0 00044	MOVL	TPA_PARAM+12, 4(R0)	1234
		E8	BD	E4	AD 2E 00049	MOVTC	TPA_PARAM+8, @TPA_PARAM+12, #0, -	
			6E	E4	AD 00054	MOVAB	LIB\$AB_UPCASE, TPA_PARAM+8, UPCASE_BUFFER	1239
		E8	AD	6E	9E 00057	PUSHAB	UPCASE_BUFFER, TPA_PARAM+12	1244
				0000V	CF 9F 0005B	PUSHAB	JOB_KEYS	
				0000V	CF 9F 0005F	PUSHAB	JOB_STATES	
			66	DC	AD 9F 00063	PUSHAB	TPA_PARAM	
			03	FB 00066	CALLS	#3, LIB\$TPARSE		
		04	50	E9 00069	BLBC	R0, 1\$		
		50		01 D0 0006C	MOVL	#1, R0	1246	
				04 0006F	RET			
				0000V	CF 9F 00070	1\$: PUSHAB	EOJ_KEYS	1251
				0000V	CF 9F 00074	PUSHAB	EOJ_STATES	
			66	DC	AD 9F 00078	PUSHAB	TPA_PARAM	
			03	FB 0007B	CALLS	#3, LIB\$TPARSE		
		04	50	E9 0007E	BLBC	R0, 2\$		
		50		03 D0 00081	MOVL	#3, R0	1253	
				04 00084	RET			
		E0	19	04 AC E9 00085	2\$: BLBC	PASSWORD, 3\$	1259	
			AD	02 88 00089	BISB2	#2, TPA_PARAM+4	1262	
				0000V	CF 9F 0008D	PUSHAB	PASSWORD_KEYS	1263
				0000V	CF 9F 00091	PUSHAB	PASSWORD_STATES	
			66	DC	AD 9F 00095	PUSHAB	TPA_PARAM	
			03	FB 00098	CALLS	#3, LIB\$TPARSE		
		04	50	E9 0009B	BLBC	R0, 3\$		
		50		05 D0 0009E	MOVL	#5, R0	1265	
				04 000A1	RET			
				50 D4 000A2	3\$: CLRL	R0		
				04 000A4	RET		1271	

; Routine Size: 165 bytes, Routine Base: CODE + 0AOA

```
: 1170 1272 1 ROUTINE GET_LINE_CONTINUATION(GET_STR,PROMPT_STR,OUT_LEN)=  
: 1171 1273 1  
: 1172 1274 1 ++  
: 1173 1275 1  
: 1174 1276 1 FUNCTIONAL DESCRIPTION:  
: 1175 1277 1 This routine is the continuation routine for the CLI$DCL_PARSE calls.  
: 1176 1278 1  
: 1177 1279 1 INPUT PARAMETERS:  
: 1178 1280 1 As for LIB$GET_INPUT.  
: 1179 1281 1  
: 1180 1282 1 IMPLICIT INPUTS:  
: 1181 1283 1 NONE  
: 1182 1284 1  
: 1183 1285 1 OUTPUT PARAMETERS:  
: 1184 1286 1 NONE  
: 1185 1287 1  
: 1186 1288 1 IMPLICIT OUTPUTS:  
: 1187 1289 1 NONE  
: 1188 1290 1  
: 1189 1291 1 ROUTINE VALUE:  
: 1190 1292 1 As for LIB$GET_INPUT.  
: 1191 1293 1  
: 1192 1294 1 SIDE EFFECTS:  
: 1193 1295 1 NONE  
: 1194 1296 1  
: 1195 1297 1 --  
: 1196 1298 1  
: 1197 1299 2 BEGIN  
: 1198 1300 2 MAP  
: 1199 1301 2 LOCAL GET_STR: REF BBLOCK; ! Pointer to descriptor  
: 1200 1302 2 LINE_DESC: BBLOCK[DSC$C_S_BLN], ! Scratch descriptor for line  
: 1201 1303 2 STATUS: ! Status return  
: 1202 1304 2  
: 1203 1305 2  
: 1204 1306 2  
: 1205 1307 2 | Get the next input line, propagating errors to CLI$DCL_PARSE.  
: 1206 1308 2  
: 1207 1309 2 STATUS = GET_RECORD();  
: 1208 1310 2 IF NOT .STATUS THEN RETURN .STATUS;  
: 1209 1311 2  
: 1210 1312 2  
: 1211 1313 2 | Ensure that the continuation line is not a JOB command, so that an error in  
: 1212 1314 2 a previous line cannot result in skipping a job.  
: 1213 1315 2  
: 1214 1316 2 CURRENT_COMMAND = IDENTIFY_COMMAND_VERB(FALSE, LINE_DESC);  
: 1215 1317 2 IF .CURRENT_COMMAND EQL K_JOB THEN RETURN INP$MBS$INVCONT;  
: 1216 1318 2  
: 1217 1319 2  
: 1218 1320 2 | Copy the record back to DCL and set the return length. This routine makes  
: 1219 1321 2 the simplifying assumptions that DCL passes a static string and always  
: 1220 1322 2 passes three parameters.  
: 1221 1323 2  
: 1222 1324 2 CH$COPY(  
: 1223 1325 2 :INPUT_RAB[RAB$W_RSZ], .INPUT_RAB[RAB$L_RBF],  
: 1224 1326 2 XC,  
: 1225 1327 2 :GET_STR[DSC$W_LENGTH], .GET_STR[DSC$A_POINTER]);  
: 1226 1328 2 (.OUT_LEN)<0,16> = .INPUT_RAB[RAB$W_RSZ];
```

```
; 1227      1329  2
; 1228      1330  2
; 1229      1331  2 | Return success.
; 1230      1332  2
; 1231      1333  2 SSS_NORMAL
; 1232      1334  1 END;
```

003C 00000 GET_LINE_CONTINUATION:

; Routine Size: 67 bytes, Routine Base: CODE + 0AAF

```

: 1234
: 1235 1 ROUTINE TIMER_AST: NOVALUE=
: 1236
: 1237
: 1238
: 1239
: 1240
: 1241
: 1242
: 1243
: 1244
: 1245
: 1246
: 1247
: 1248
: 1249
: 1250
: 1251
: 1252
: 1253
: 1254
: 1255
: 1256
: 1257
: 1258
: 1259
: 1260
: 1261
: 1262
: 1263
: 1264
: 1265
: 1266
: 1267
: 1268
: 1269
: 1270
: 1271
: 1272
: 1273
: 1274
: 1275
: 1276
: 1277

1335 1 ROUTINE TIMER_AST: NOVALUE=
1336 1 ++
1337 1 FUNCTIONAL DESCRIPTION:
1338 1 This routine is entered on the expiration of the periodic timer to
1339 1 determine if any input operations have completed in that interval,
1340 1 and to exit the symbiont if appropriate.
1341 1
1342 1 INPUT PARAMETERS:
1343 1 Standard AST routine parameters (not used).
1344 1
1345 1 IMPLICIT INPUTS:
1346 1 NONE
1347 1
1348 1 OUTPUT PARAMETERS:
1349 1 NONE
1350 1
1351 1 IMPLICIT OUTPUTS:
1352 1 NONE
1353 1
1354 1 ROUTINE VALUE:
1355 1 NONE
1356 1
1357 1 SIDE EFFECTS:
1358 1 NONE
1359 1
1360 1
1361 1
1362 1 --
1363 1
1364 2 BEGIN
1365 2
1366 2 If there have been no input completions since the last expiration of the timer
1367 2 and we are not processing a job, exit the symbiont.
1368 2
1369 2 IF .INPUT_COMPLETIONS EQL 0 AND .OUTPUT_FAB[FAB$W_IFI] EQL 0
1370 2 THEN
1371 2     $EXIT(CODE=SS$_NORMAL);
1372 2
1373 2 Set up the next interval.
1374 2
1375 2 INPUT_COMPLETIONS = 0;
1376 2 $SETIMR(DAYTIM=PERIODIC_INTERVAL, ASTADR=TIMER_AST);
1377 2
1378 1 END;

```

.EXTRN SYS\$EXIT

0000 00000 TIMER_AST:			
0000'	CF D5 00002	.WORD	Save nothing
	0F 12 00006	TSTL	INPUT_COMPLETIONS
0000'	CF B5 00008	BNEQ	1\$
	09 12 0000C	TSTW	OUTPUT_FAB+2
	01 DD 0000E	BNEQ	1\$
0000000G 00	01 FB 00010	PUSHL	#1
		CALLS	#1, SYS\$EXIT

: 1335
1369

: 1371

INPSMB
V04-000

Input symbiont

N 8
16-Sep-1984 01:43:25 VAX-11 Bliss-32 v4.0-742
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: 1376
: 1377

0000' CF D4 00017 1\$:	CLRL INPUT_COMPLETIONS
7E D4 0001B	CLRL -(SP)
E0 AF 9F 0001D	PUSHAB TIMER_AST
F4EA CF 9F 00020	PUSHAB PERIODIC_INTERVAL
7E D4 00024	CLRL -(SP)
00000000G 00 04 FB 00026	CALLS #4, SYS\$SETIMR
04 0002D	RET

: 1378

; Routine Size: 46 bytes, Routine Base: CODE + 0AF2

**

```
: 1279 1379 1 ROUTINE FILE_ERROR(MESSAGE,FAB,EXTRA1,EXTRA2): NOVALUE=
: 1280 1380 1
: 1281 1381 1 ++
: 1282 1382 1
: 1283 1383 1 FUNCTIONAL DESCRIPTION:
: 1284 1384 1 This routine signals a file-related message.
: 1285 1385 1
: 1286 1386 1 INPUT PARAMETERS:
: 1287 1387 1 MESSAGE - Message code for first message
: 1288 1388 1 FAB - Pointer to FAB, from which file name
: 1289 1389 1 will be obtained
: 1290 1390 1 Up to two additional input parameters are additional messages.
: 1291 1391 1
: 1292 1392 1 IMPLICIT INPUTS:
: 1293 1393 1 NONE
: 1294 1394 1
: 1295 1395 1 OUTPUT PARAMETERS:
: 1296 1396 1 NONE
: 1297 1397 1
: 1298 1398 1 IMPLICIT OUTPUTS:
: 1299 1399 1 NONE
: 1300 1400 1
: 1301 1401 1 ROUTINE VALUE:
: 1302 1402 1 NONE
: 1303 1403 1
: 1304 1404 1 SIDE EFFECTS:
: 1305 1405 1 The messages are signalled.
: 1306 1406 1
: 1307 1407 1!--
: 1308 1408 1
: 1309 1409 2 BEGIN
: 1310 1410 2 MAP
: 1311 1411 2 LOCAL FAB: REF BBLOCK; ! Pointer to FAB
: 1312 1412 2 NAM: REF BBLOCK,
: 1313 1413 2 DESC: VECTOR[2]; ! Pointer to NAM block
: 1314 1414 2 PARAM: VECTOR[6]; ! Descriptor for file name
: 1315 1415 2
: 1316 1416 2 BUILTIN ACTUALCOUNT,
: 1317 1417 2 CALLG;
: 1318 1418 2
: 1319 1419 2
: 1320 1420 2
: 1321 1421 2 ! Establish the file name to be printed. The resultant string, expanded
: 1322 1422 2 string, and filename string are examined in that order, and the first
: 1323 1423 2 one that is not null is used.
: 1324 1424 2
: 1325 1425 2 NAM = .FAB[FAB$L_NAM];
: 1326 1426 2 IF .NAM[NAM$B_RS] NEQ 0
: 1327 1427 2 THEN
: 1328 1428 3 BEGIN
: 1329 1429 3 DESC[0] = .NAM[NAM$B_RSL];
: 1330 1430 3 DESC[1] = .NAM[NAM$L_RSA];
: 1331 1431 3 END
: 1332 1432 2 ELSE IF .NAM[NAM$B_ESL] NEQ 0
: 1333 1433 2 THEN
: 1334 1434 3 BEGIN
: 1335 1435 3 DESC[0] = .NAM[NAM$B_ESL];
```

```

: 1336 1436 3 DESC[1] = .NAM[NAMSL_ESA];
: 1337 1437 3 END
: 1338 1438 2 ELSE
: 1339 1439 3 BEGIN
: 1340 1440 3 DESC[0] = .FAB[FAB$B_FNS];
: 1341 1441 3 DESC[1] = .FAB[FAB$L_FNA];
: 1342 1442 2 END;
: 1343 1443 2
: 1344 1444 2 ! Initialize the signal parameter list.
: 1345 1445 2
: 1346 1446 2
: 1347 1447 2 PARAM[0] = 3;                                | Parameter count
: 1348 1448 2 PARAM[1] = .MESSAGE;                      | First message code
: 1349 1449 2 PARAM[2] = 1;                                | FAO argument count
: 1350 1450 2 PARAM[3] = DESC;                            | Filename descriptor
: 1351 1451 2 IF ACTUALCOUNT() GEQ 3
: 1352 1452 2 THEN
: 1353 1453 3 BEGIN
: 1354 1454 3 PARAM[0] = .PARAM[0] + 1;                  | Increment parameter count
: 1355 1455 3 PARAM[4] = .EXTRA1;                        | Next message code
: 1356 1456 2 END;
: 1357 1457 2 IF ACTUALCOUNT() GEQ 4
: 1358 1458 2 THEN
: 1359 1459 3 BEGIN
: 1360 1460 3 PARAM[0] = .PARAM[0] + 1;                  | Increment parameter count
: 1361 1461 3 PARAM[5] = .EXTRA2;                        | Next message code
: 1362 1462 2 END;
: 1363 1463 2
: 1364 1464 2
: 1365 1465 2 ! Finally, signal the messages.
: 1366 1466 2
: 1367 1467 2 CALLG(PARAM, LIB$SIGNAL);
: 1368 1 END;

```

0000 00000 FILE_ERROR:								
								1379
	5E		20	C2 00002		.WORD	Save nothing	
	51	08	AC	D0 00005	SUBL2		#32, SP	1425
	50	28	A1	D0 00009	MOVL		FAB, R1	
		03	A0	95 0000D	MOVL		40(R1), NAM	1426
			OC	13 00010	TSTB		3(NAM)	
	18	AE	03	A0 9A 00012	BEQL		1\$	
	1C	AE	04	A0 D0 00017	MOVZBL		3(NAM), DESC	1429
			1B	11 0001C	MOVL		4(NAM), DESC+4	1430
		0B	A0	95 0001E	BRB		3\$	1426
			OC	13 00021	TSTB		11(NAM)	1432
	18	AE	0B	A0 9A 00023	BEQL		2\$	
	1C	AE	0C	A0 D0 00028	MOVZBL		11(NAM), DESC	1435
			OA	11 0002D	MOVL		12(NAM), DESC+4	1436
	18	AE	34	A1 9A 0002F	BRB		3\$	1432
	1C	AE	2C	A1 D0 00034	2\$:		52(R1), DESC	1440
		6E	03	D0 00039	MOVZBL		44(R1), DESC+4	1441
	04	AE	04	AC D0 0003C	MOVL		#3, PARAM	1447
					MOVL		MESSAGE, PARAM+4	1448

INPSMB
V04-000

Input symbiont

D 9

16-Sep-1984 01:43:25

14-Sep-1984 12:35:25

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IN

08	AE		01	D0	00041	MOVL	#1, PARAM+8	: 1449
0C	AE		18	AE	9E 00045	MOVAB	DESC, PARAM+12	: 1450
	03			6C	91 0004A	CMPB	(AP), #3	: 1451
				07	1F 0004D	BLSSU	4\$	
				6E	D6 0004F	INCL	PARAM	: 1454
10	AE		0C	AC	D0 00051	MOVL	EXTRA1, PARAM+16	: 1455
	04			6C	91 00056	CMPB	(AP), #4	: 1457
				07	1F 00059	BLSSU	5\$	
				6E	D6 0005B	INCL	PARAM	: 1460
14	AE		10	AC	D0 0005D	MOVL	EXTRA2, PARAM+20	: 1461
00000000G	00			6E	FA 00062	CALLG	PARAM, LIB\$SIGNAL	: 1467
				04	00069	RET		: 1468

; Routine Size: 106 bytes, Routine Base: CODE + 0B20

```
: 1370      1469 1 ROUTINE MAIN_HANDLER_ACTION(MSG_DESC)=  
: 1371      1470 1  
: 1372      1471 1 ++  
: 1373      1472 1  
: 1374      1473 1 FUNCTIONAL DESCRIPTION:  
: 1375      1474 1 This is an action routine for the $PUTMSG that issues a signalled  
: 1376      1475 1 message to the system console. It writes the record to the operator  
: 1377      1476 1 via OPCOM or via broadcast.  
: 1378      1477 1  
: 1379      1478 1 INPUT PARAMETERS:  
: 1380      1479 1 MSG_DESC - Descriptor for message.  
: 1381      1480 1  
: 1382      1481 1 IMPLICIT INPUTS:  
: 1383      1482 1 NONE  
: 1384      1483 1  
: 1385      1484 1 OUTPUT PARAMETERS:  
: 1386      1485 1 NONE  
: 1387      1486 1  
: 1388      1487 1 IMPLICIT OUTPUTS:  
: 1389      1488 1 NONE  
: 1390      1489 1  
: 1391      1490 1 ROUTINE VALUE:  
: 1392      1491 1 FALSE, to signal $PUTMSG not to write the message.  
: 1393      1492 1  
: 1394      1493 1 SIDE EFFECTS:  
: 1395      1494 1 NONE  
: 1396      1495 1  
: 1397      1496 1 --  
: 1398      1497 1  
: 1399      1498 2 BEGIN  
: 1400      1499 2 MAP  
: 1401      1500 2 LOCAL MSG_DESC: REF BBLOCK; ! Descriptor for message text  
: 1402      1501 2 LENGTH: WORD, ! Length of message, minimized  
: 1403      1502 2 OPC_BUFFER: BBLOCK[$BYTEOFFSET(OPC$L_MS_TEXT) + 132],  
: 1404      1503 2           Buffer for OPCOM message  
: 1405      1504 2 OPC_DESC: VECTOR[2], Descriptor for message buffer  
: 1406      1505 2 STATUS; ! Status return  
: 1407      1506 2  
: 1408      1507 2  
: 1409      1508 2  
: 1410      1509 2 ! Set up the OPCOM message buffer.  
: 1411      1510 2  
: 1412      1511 2 OPC_BUFFER[OPC$B_MS_TYPE] = OPC$ RQ_RQST;  
: 1413      1512 2 OPC_BUFFER[OPC$B_MS_TARGET] = OPC$M_NM_CARDS;  
: 1414      1513 2 OPC_BUFFER[OPC$W_MS_STATUS] = 0;  
: 1415      1514 2 OPC_BUFFER[OPC$L_MS_RQSTID] = 0;  
: 1416      1515 2 LENGTH = .MSG_DESC[DSCSW_LENGTH];  
: 1417      1516 2 IF .LENGTH GTRU 132 THEN LENGTH = 132;  
: 1418      1517 2 CH$MOVE(.LENGTH, .MSG_DESC[DSCSA_POINTER], OPC_BUFFER[OPC$L_MS_TEXT]);  
: 1419      1518 2 OPC_DESC[0] = $BYTEOFFSET(OPC$L_MS_TEXT) + .LENGTH;  
: 1420      1519 2 OPC_DESC[1] = OPC_BUFFER;  
: 1421      1520 2  
: 1422      1521 2  
: 1423      1522 2 ! Try to send the message by OPCOM. If this fails, send a broadcast to the  
: 1424      1523 2 system console.  
: 1425      1524 2  
: 1426      1525 2 STATUS = $SNDOPR(MSGBUF=OPC_DESC);
```

```
: 1427      1526 2 IF NOT .STATUS OR .STATUS EQL OPC$_NOPERATOR
: 1428      1527 2 THEN
: 1429      1528 2   $BRDCST(MSGBUF=.MSG_DESC, DEVNAM=$DESCRIPTOR('_OPAO:'));
: 1430      1529 2
: 1431      1530 2
: 1432      1531 2 ! Return FALSE, to signal $PUTMSG not to write the message.
: 1433      1532 2 !
: 1434      1533 2 FALSE
: 1435      1534 1 END:
```

3A 30 41 50 4F 5F 00B8A P.ACB: .ASCII _OPAO:\n 00000006 00B90 P.ACA: .LONG 6\n 00000000 00B94 .ADDRESS P.ACB

.EXTRN SYSSNDOPR, SYSSBRDCST

; Routine Size: 94 bytes, Routine Base: CODE + 0B98

```
: 1437      1535 1 ROUTINE MAIN_HANDLER(SIG,MCH)=
: 1438      1536 1
: 1439      1537 1 ++
: 1440      1538 1
: 1441      1539 1 FUNCTIONAL DESCRIPTION:
: 1442      1540 1 This routine is the condition handler for the main routine. It
: 1443      1541 1 intercepts signals and writes the message to the operator.
: 1444      1542 1
: 1445      1543 1 INPUT PARAMETERS:
: 1446      1544 1 Standard VMS condition handler parameters.
: 1447      1545 1
: 1448      1546 1 IMPLICIT INPUTS:
: 1449      1547 1 NONE
: 1450      1548 1
: 1451      1549 1 OUTPUT PARAMETERS:
: 1452      1550 1 NONE
: 1453      1551 1
: 1454      1552 1 IMPLICIT OUTPUTS:
: 1455      1553 1 NONE
: 1456      1554 1
: 1457      1555 1 ROUTINE VALUE:
: 1458      1556 1 SSS_CONTINUE
: 1459      1557 1
: 1460      1558 1 SIDE EFFECTS:
: 1461      1559 1 If the condition is fatal, the image exits.
: 1462      1560 1
: 1463      1561 1 --
: 1464      1562 1
: 1465      1563 2 BEGIN
: 1466      1564 2 MAP
: 1467      1565 2     SIG:           REF BBLOCK,      | Signal parameters
: 1468      1566 2     MCH:           REF BBLOCK;     | Mechanism parameters
: 1469      1567 2 LOCAL
: 1470      1568 2     DESC:          VECTOR[2],    | Descriptor for JOB command
: 1471      1569 2     MSGVEC:        VECTOR[4];   | $PUTMSG parameter vector
: 1472      1570 2
: 1473      1571 2
: 1474      1572 2 : Print the JOB command that incurred the error, if any.
: 1475      1573 2
: 1476      1574 2 IF .JOB_LENGTH NEQ 0
: 1477      1575 2 THEN
: 1478      1576 3   BEGIN
: 1479      1577 3     DESC[0] = .JOB_LENGTH;
: 1480      1578 3     DESC[1] = JOB_BUFFER;
: 1481      1579 3     WHILE .DESC[0] GTR 0 DO
: 1482      1580 4       BEGIN
: 1483      1581 4         IF CHRCHAR(.DESC[1] + .DESC[0] - 1) NEQ %C' ' THEN EXITLOOP;
: 1484      1582 4         DESC[0] = .DESC[0] - 1;
: 1485      1583 3       END;
: 1486      1584 3       MSGVEC[0] = 3;
: 1487      1585 3       MSGVEC[1] = INPSMB$_JOBCARD;
: 1488      1586 3       MSGVEC[2] = 1;
: 1489      1587 3       MSGVEC[3] = DESC;
: 1490      1588 3       SPUTMSG(MSGVEC=MSGVEC, ACTRTN=.PUTMSG_ACTION_ROUTINE);
: 1491      1589 2     END;
: 1492      1590 2
: 1493      1591 2
```

```

: 1494    1592 2 ! Adjust the signal parameter count to remove the PC and PSL, and call $PUTMSG
: 1495    1593 2 to issue the message.
: 1496    1594 2
: 1497    1595 2 SIG[CHF$L_SIG_ARGS] = .SIG[CHF$L_SIG_ARGS] - 2;
: 1498    1596 2 $PUTMSG(MSGVEC=.SIG, ACTRTN=.PUTMSG_ACTION_ROUTINE);
: 1499    1597 2
: 1500    1598 2 ! If the exception was fatal, exit the image. Otherwise, continue.
: 1501    1599 2
: 1502    1600 2 IF .BBLOCK[SIG[CHF$L_SIG_NAME], STSSV_SEVERITY] EQL STSSK_SEVERE
: 1503    1601 2 THEN
: 1504    1602 2     SEXIT(CODE=.SIG[CHF$L_SIG_NAME] OR STSSM_INHIB_MSG);
: 1505    1603 2
: 1506    1604 2
: 1507    1605 2
: 1508    1606 2 SSS_CONTINUE
: 1509    1607 1 END;

```

.EXTRN SY\$PUTMSG

001C 00000 MAIN_HANDLER:					
					.WORD
					Save R2,R3,R4
					PUTMSG ACTION ROUTINE, R4
					SY\$PUTMSG, R3
					#24, SP
					SUBL2
					MOVL
					JOB_LENGTH, R0
					BEQL
					3\$
					MOVL
					R0, DESC
					MOVAB
					JOB BUFFER, DESC+4
					TSTL
					DESC
					BLEQ
					2\$
					ADDL3
					DESC, DESC+4, R0
					-1(R0), #32
					CMPB
					BNEQ
					2\$
					DECL
					DESC
					BRB
					1\$
					MOVL
					#3, MSGVEC
					#INPSMB\$ JOBCARD, MSGVEC+4
					#1, MSGVEC+8
					MOVAB
					DESC, MSGVEC+12
					CLRQ
					-(SP)
					PUSHL
					PUTMSG_ACTION_ROUTINE
					MSGVEC
					CALLS
					#4, SY\$PUTMSG
					MOVL
					SIG, R2
					#2, (R2)
					SUBL2
					CLRQ
					-(SP)
					PUSHL
					PUTMSG_ACTION_ROUTINE
					R2
					CALLS
					#4, SY\$PUTMSG
					CMPZV
					#0, #3, 4(R2), #4
					BNEQ
					4\$
					BISL3
					#268435456, 4(R2), -(SP)
					CALLS
					#1, SYS\$EXIT
					MOVL
					#1, R0
					RET

Mo
--
IN
SY
SE
UTCL
CL
SY
LB
LI1535
1574
1577
1578
1579
1581
1582
1579
1584
1585
1586
1587
1588
1595
1596
1601
1603
1607

INPSMB
V04-000

Input symbiont

I 9
16-Sep-1984 01:43:25 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:35:25 [INPSMB.SRC]INPSMB.B32;1

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; Routine Size: 128 bytes, Routine Base: CODE + 0BF6

\$

DE

LBI

LII

```
: 1511      1608 1 $INIT_STATE(DOLLAR_STATES, DOLLAR_KEYS);
: 1512      P 1609 1 $$STATE(
: 1513          1610 1   ('$', TPAS_EXIT));
: 1514          1611 1
: 1515          1612 1
: 1516          1613 1 $INIT_STATE(JOB_STATES, JOB_KEYS);
: 1517      P 1614 1 $$STATE(
: 1518          1615 1   ('JOB', TPAS_EXIT));
: 1519          1616 1
: 1520          1617 1
: 1521          1618 1 $INIT_STATE(EOJ_STATES, EOJ_KEYS);
: 1522      P 1619 1 $$STATE(
: 1523          1620 1   ('EOJ', TPAS_EXIT));
: 1524          1621 1
: 1525          1622 1
: 1526          1623 1 $INIT_STATE(PASSWORD_STATES, PASSWORD_KEYS);
: 1527      P 1624 1 $$STATE(
: 1528          1625 1   ('PASSWORD', TPAS_EXIT));
```

: 1530 1626 1 END
 : 1531 1627 0 ELUDOM

\$
Ps
--
MS
MS
MS
MS

```

          .PSECT _LIB$KEY1$,NOWRT, SHR, PIC,1
          00000 ;TPA$KEYSTO
          U.5: BLKB 0
        42 4F 4A 00000 ;TPA$KEYST
          U.7: .ASCII \JOB\
          FF 00003 .BYTE -1
          FF 00004 ;TPA$KEYFILL
          U.10: .BYTE -1
          00005 ;TPA$KEYSTO
          U.12: BLKB 0
        4A 4F 45 00005 ;TPA$KEYST
          U.14: .ASCII \EOJ\
          FF 00008 .BYTE -1
          FF 00009 ;TPA$KEYFILL
          U.17: .BYTE -1
          0000A ;TPA$KEYSTO
          U.19: BLKB 0
        44 52 4F 57 53 53 41 50 0000A ;TPA$KEYST
          U.21: .ASCII \PASSWORD\
          FF 00012 .BYTE -1
          FF 00013 ;TPA$KEYFILL
          U.24: .BYTE -1

          .PSECT _LIB$STATES$,NOWRT, SHR, PIC,1
          00000 DOLLAR_STATES:::BLKB 0
        1424 00000 ;TPA$TYPE
          U.2: WORD 5156
        FFFF 00002 ;TPA$TARGET
          U.3: WORD -1
          00004 JOB_STATES:::BLKB 0
        1500 00004 ;TPA$TYPE
          U.8: WORD 5376
        FFFF 00006 ;TPA$TARGET
          U.9: WORD -1
          00008 EOJ_STATES:::BLKB 0
        1500 00008 ;TPA$TYPE
          U.15: WORD 5376
        FFFF 0000A ;TPA$TARGET
          U.16: WORD -1
          0000C PASSWORD_STATES:::BLKB 0
        1500 0000C ;TPA$TYPE
          U.22: WORD 5376
        FFFF 0000E ;TPA$TARGET
          U.23: WORD -1

          .PSECT _LIB$KEY0$,NOWRT, SHR, PIC,1

```

```

00000 DOLLAR_KEYS::          BLKB  0
00000 ;TPA$KEY0              U.1:   .BLKB  0
00000 JOB_KEYS::             U.2:   .BLKB  0
00000 ;TPA$KEY0              U.3:   .BLKB  0
0000* 00000 ;TPA$KEY          U.4:   .BLKB  0
00002                           U.6:   .WORD  <U.5-U.4>
00004 EOJ_KEYS::              U.7:   .BLKB  2
00004 ;TPA$KEY0              U.8:   .BLKB  0
0000* 00004 ;TPA$KEY          U.9:   .BLKB  0
00006                           U.13:  .WORD  <U.12-U.11>
00008 PASSWORD_KEYS::         U.14:  .BLKB  2
00008 ;TPA$KEY0              U.15:  .BLKB  0
0000* 00008 ;TPA$KEY          U.16:  .BLKB  0
00008                           U.20:  .WORD  <U.19-U.18>

```

```
.EXTRN LIB$SIGNAL
```

PSECT SUMMARY

Name	Bytes	Attributes
DATA	1408	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
CODE	3190	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
-LIB\$KEY0\$	10	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
-LIB\$STATES\$	16	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
-LIB\$KEY1\$	20	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)

Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
-\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	214	1	1000	00:01.9
-\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	19	45	14	00:00.2

: Information: 1
 : Warnings: 0
 : Errors: 0

INPSMB
V04-000

Input symbiont

M 9
16-Sep-1984 01:43:25 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:35:25 [INPSMB.SRC]INPSMB.B32;1

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COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:INPSMB/OBJ=OBJ\$:INPSMB MSRC\$:INPSMB/UPDATE=(ENH\$:INPSMB)

: Size: 2736 code + 1908 data bytes
: Run Time: 00:59.0
: Elapsed Time: 02:02.2
: Lines/CPU Min: 1654
: Lexemes/CPU-Min: 33073
: Memory Used: 411 pages
: Compilation Complete

0188 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

INPSMB
MAP

INDEF
SOL

INPSMBMSG
LIS

RSXLBLOF
SOL

INSCREATE
LIS

INITIO
LIS

INSTAL
S

INSTALL
MAP

INSCMO
CLD

INSPREFIX
REQ

INPSMBLD
CLD

INPSMB
LIS?

INSOLDEMO
CLD

INSCMO
LIS

INITIO
LIS

ROHOME
LIS

INPSMB
LIS

INPSMBLD
LIS